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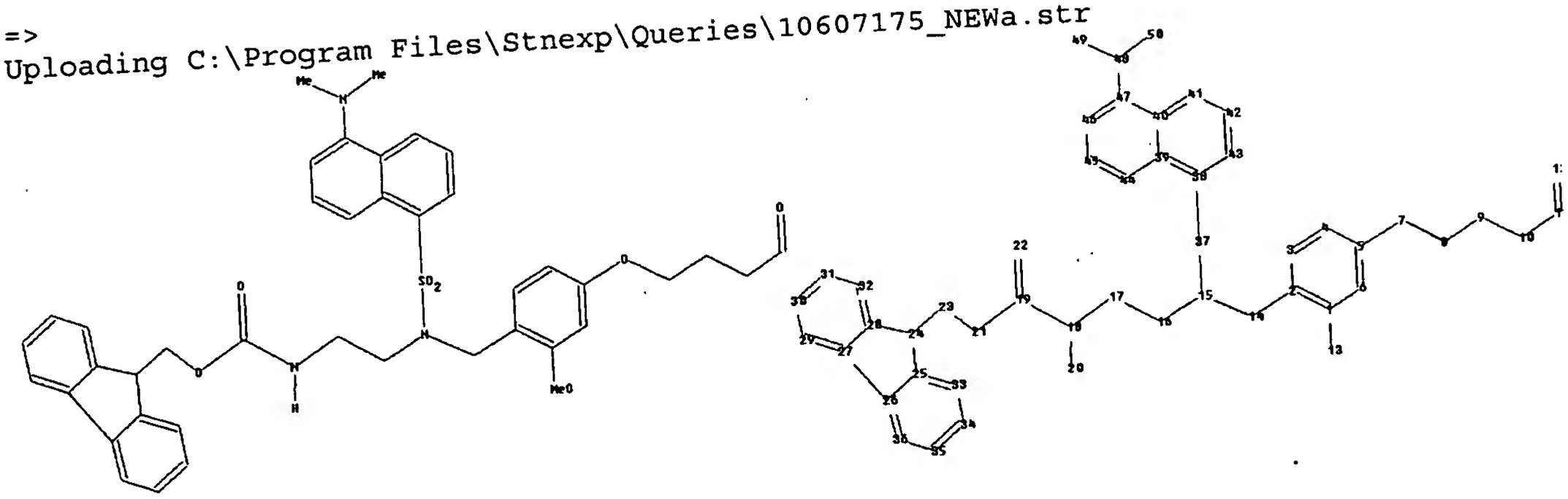

chain nodes :
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 37 48 49 50

ring nodes :
1 2 3 4 5 6 24 25 26 27 28 29 30 31 32 33 34 35 36 38 39 40
41 42 43 44 45 46 47
chain bonds :
1-13 2-14 5-7 7-8 8-9 9-10 10-11 11-12 14-15 15-16 15-37 16-17 17-18
18-19 18-20 19-21 19-22 21-23 23-24 37-38 47-48 48-49 48-50
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 24-25 24-28 25-26 25-33 26-27 26-36 27-28 27-
29
28-32 29-30 30-31 31-32 33-34 34-35 35-36 38-39 38-43 39-40 39-44 40-41
40-47 41-42
42-43 44-45 45-46 46-47
exact/norm bonds :
5-7 7-8 11-12 14-15 15-16 15-37 17-18 18-19 19-21 19-22 21-23 47-48
exact bonds :
1-13 2-14 8-9 9-10 10-11 16-17 18-20 23-24 24-25 24-28 26-27 37-38 48-
49
48-50
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 25-26 25-33 26-36 27-28 27-29 28-32 29-30 30-
31
31-32 33-34 34-35 35-36 38-39 38-43 39-40 39-44 40-41 40-47 41-42 42-43
44-45 45-46
46-47
isolated ring systems :
containing 1 : 24 : 38 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS
21:CLASS 22:CLASS 23:CLASS 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom
30:Atom 31:Atom
32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:CLASS 38:Atom 39:Atom 40:Atom
41:Atom
42:Atom 43:Atom 44:Atom 45:Atom 46:Atom 47:Atom 48:CLASS 49:CLASS 50:CLASS

L1 STRUCTURE UPLOADED

=> **s l1**
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SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

0 ANSWERS

100.0% PROCESSED 1 ITERATIONS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1 TO 80
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> **s l1 full**
FULL SEARCH INITIATED 13:14:00 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 12 TO ITERATE

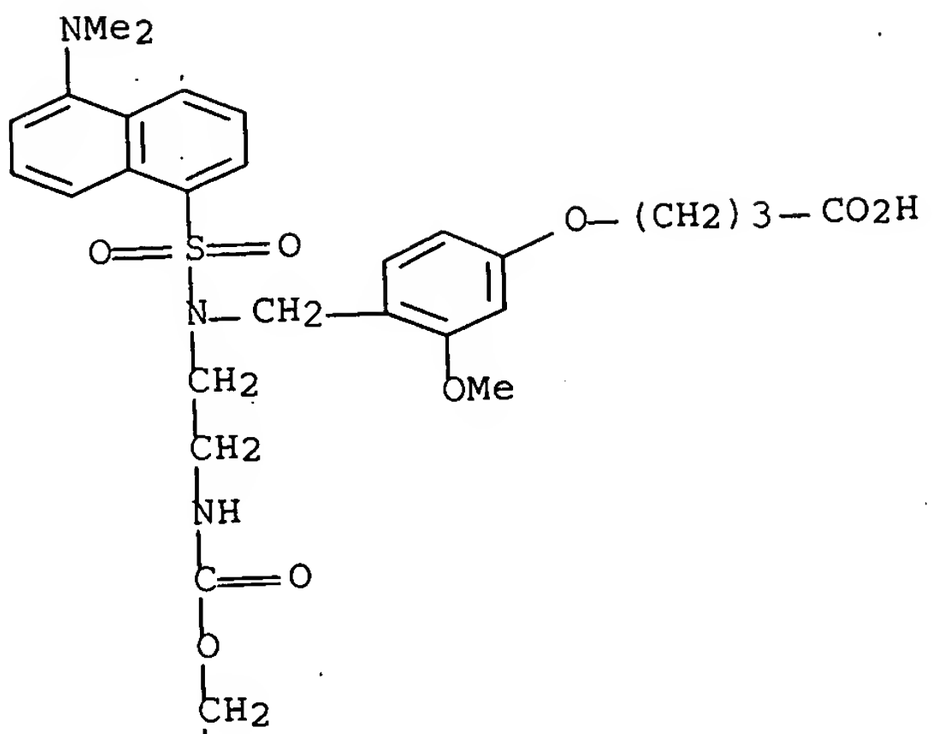
1 ANSWERS

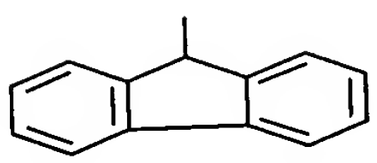
100.0% PROCESSED 12 ITERATIONS
SEARCH TIME: 00.00.01

L3 1 SEA SSS FUL L1

=> **d l3**

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
RN 816430-05-4 REGISTRY
ED Entered STN: 19 Jan 2005
CN Butanoic acid, 4-[4-[[[[5-(dimethylamino)-1-naphthalenyl]sulfonyl][2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)
MF C41 H43 N3 O8 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL





PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file medline, caplus, wpids, uspatfull

=> s l3
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SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

0 ANSWERS

100.0% PROCESSED 0 ITERATIONS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:	ONLINE	**COMPLETE**
	BATCH	**COMPLETE**
PROJECTED ITERATIONS:	0 TO	0
PROJECTED ANSWERS:	0 TO	0

L4 2 L3

=> d 14 1-2 ibib, abs, hitstr

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:2014 CAPLUS Full-text
DOCUMENT NUMBER: 142:94138
TITLE: Method and building blocks for preparing C-terminally labeled peptides
INVENTOR(S): White, Peter David; Beythien, Jorg Karl Wilheim
PATENT ASSIGNEE(S): UK
SOURCE: U.S. Pat. Appl. Publ., 21 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

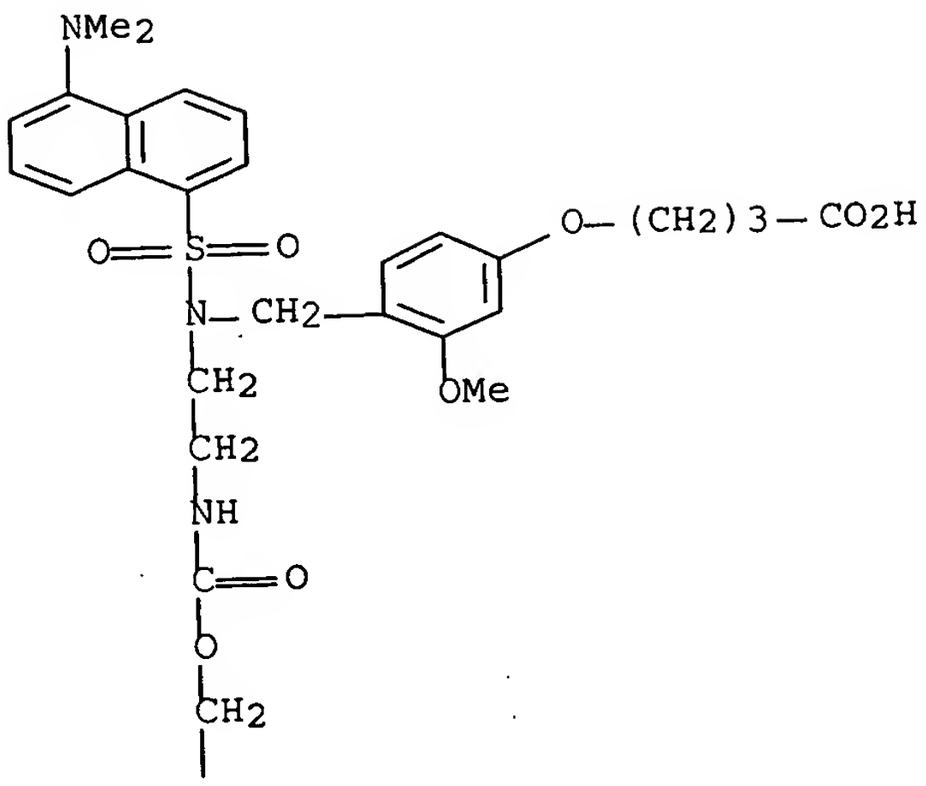
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004265949	A1	20041230	US 2003-607175	20030626
			US 2003-607175	20030626

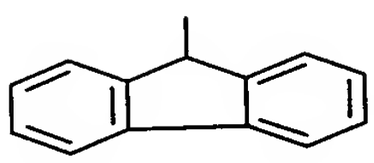
PRIORITY APPLN. INFO.:
OTHER SOURCE(S): MARPAT 142:94138

AB The invention relates to a solid-phase method for preparing C-terminally labeled peptides and building blocks to be used in this synthesis. The building blocks have formula A-N(Lm-B)Kn-C, where A is a functionality for the attachment to a solid support or a functionality already comprising a solid support, B is a functionality for the attachment of one or more amino acids or peptides or a functionality already comprising one or more amino acids or peptides, C is a functionality for the attachment of one or more labels or a functionality already comprising one or more labels, K, L are independently (un)substituted alkyl chains with at least two C-atoms (one or more non-neighboring C-atoms may be substituted by O, NH, alkyl- or arylimino, S, CO, an ester or amide group and/or neighboring C-atoms may be connected via a double or triple bond), and m, n are 0 or 1 with m + n ≥ 1. Thus, N-biotinyl-N'-Fmoc-ethylenediamine-MPB-AM-resin [MPB = [4-(3-carboxypropoxy)-2-methoxyphenyl]methyl; Fmoc = fluorenylmethoxycarbonyl] was prepared and applied to the synthesis of H-Asp-Glu-Val-Asp-Ala-Arg-NHCH2CH2NH-biotinyl.

IT 816430-05-4DP, resin-bound
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(solid-phase synthesis of C-terminally labeled peptides)

RN 816430-05-4 CAPLUS
CN Butanoic acid, 4-[4-[[[[5-(dimethylamino)-1-naphthalenyl]sulfonyl][2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)





L4 ANSWER 2 OF 2 USPATFULL on STN

ACCESSION NUMBER: 2004:334867 USPATFULL Full-text

TITLE: Method and building blocks for preparing C-terminally labelled peptides

INVENTOR(S): White, Peter David, Southwell, UNITED KINGDOM
Beythien, Jorg Karl Wilheim, Budendorf, SWITZERLAND

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004265949	A1	20041230	
APPLICATION INFO.:	US 2003-607175	A1	20030626	(10)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: FRELING E. BAKER, BROWN MARTIN HALLER & MCCLAIM, 1660 UNION STREET, SAN DIEGO, CA, 92101

NUMBER OF CLAIMS: 9

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 5 Drawing Page(s)

LINE COUNT: 1028

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for preparing C-terminally labelled peptides and building blocks to be used in this synthesis includes a trivalent nitrogen atom having at least one device for attachment to a solid support, one device for the attachment of amino acids and one device for attachment of a label, whereby the device for the attachment of amino acids and/or the device for the attachment of a label is a linker, e.g. an alkyl- or polyethyleneglycol- linker.

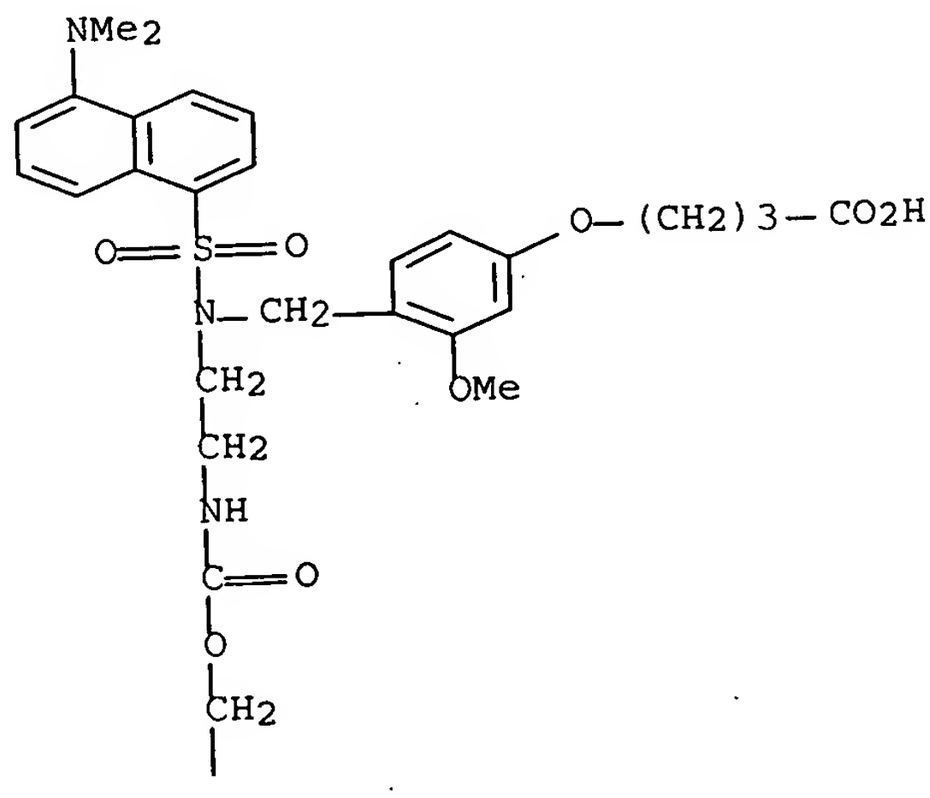
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 816430-05-4DP, resin-bound
(solid-phase synthesis of C-terminally labeled peptides)

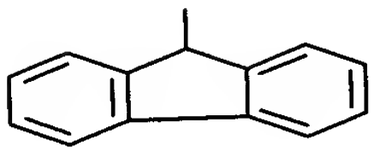
RN 816430-05-4 USPATFULL

CN Butanoic acid, 4-[4-[[[[5-(dimethylamino)-1-naphthalenyl]sulfonyl][2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



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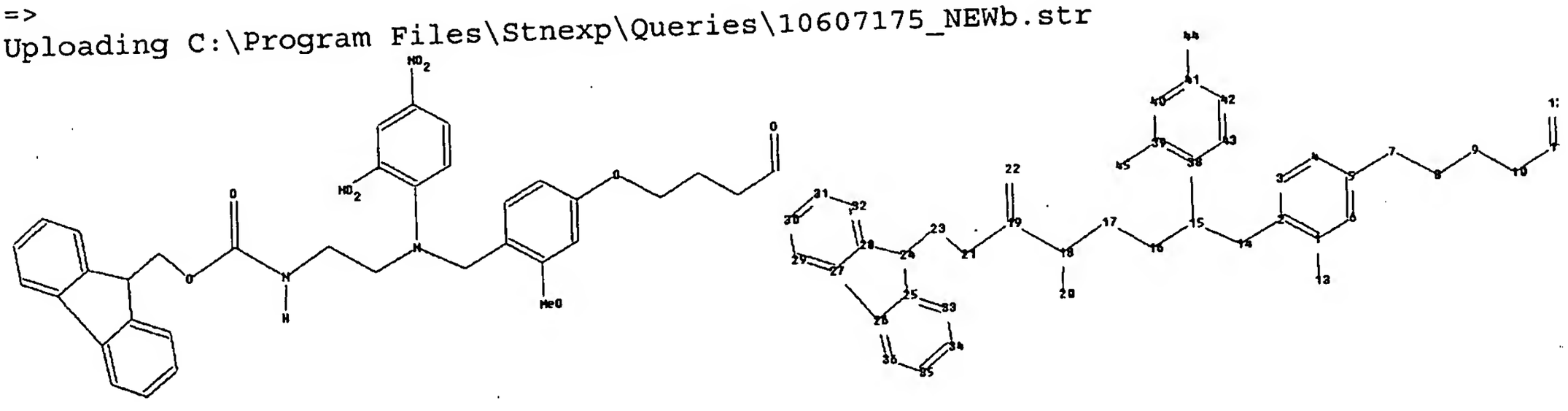

chain nodes :
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 44 45
ring nodes :
1 2 3 4 5 6 24 25 26 27 28 29 30 31 32 33 34 35 36 38 39 40
41 42 43
chain bonds :
1-13 2-14 5-7 7-8 8-9 9-10 10-11 11-12 14-15 15-16 15-38 16-17 17-18
18-19 18-20 19-21 19-22 21-23 23-24 39-45 41-44
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 24-25 24-28 25-26 25-33 26-27 26-36 27-28 27-
29
28-32 29-30 30-31 31-32 33-34 34-35 35-36 38-39 38-43 39-40 40-41 41-42
42-43
exact/norm bonds :
5-7 7-8 11-12 14-15 15-16 15-38 17-18 18-19 19-21 19-22 21-23
exact bonds :
1-13 2-14 8-9 9-10 10-11 16-17 18-20 23-24 24-25 24-28 26-27 39-45 41-
44

normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 25-26 25-33 26-36 27-28 27-29 28-32 29-30 30-
31
31-32 33-34 34-35 35-36 38-39 38-43 39-40 40-41 41-42 42-43
isolated ring systems :
containing 1 : 24 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS
21:CLASS 22:CLASS 23:CLASS 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom
30:Atom 31:Atom
32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 38:Atom 39:Atom 40:Atom 41:Atom
42:Atom 43:Atom
44:CLASS 45:CLASS

L5 STRUCTURE UPLOADED

=> **s l5 full**
FULL SEARCH INITIATED 13:16:47 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L7 1 SEA SSS FUL L5

=> **file medline, caplus, wpids, uspatfull**

=> **s l7**
SAMPLE SEARCH INITIATED 13:17:04 FILE 'WPIDS'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L8 2 L7

=> **d 18 1-2 ibib, abs**

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:2014 CAPLUS Full-text
DOCUMENT NUMBER: 142:94138
TITLE: Method and building blocks for preparing C-terminally labeled peptides
INVENTOR(S): White, Peter David; Beythien, Jorg Karl Wilheim
PATENT ASSIGNEE(S): UK
SOURCE: U.S. Pat. Appl. Publ., 21 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004265949	A1	20041230	US 2003-607175	20030626
			US 2003-607175	20030626

PRIORITY APPLN. INFO.:
OTHER SOURCE(S): MARPAT 142:94138

AB The invention relates to a solid-phase method for preparing C-terminally labeled peptides and building blocks to be used in this synthesis. The building blocks have formula A-N(Lm-B)Kn-C, where A is a functionality for the attachment to a solid support or a functionality already comprising a solid support, B is a functionality for the attachment of one or more amino acids or peptides or a functionality already comprising one or more amino acids or peptides, C is a functionality for the attachment of one or more labels or a functionality already comprising one or more labels, K, L are independently (un)substituted alkyl chains with at least two C-atoms (one or more non-neighboring C-atoms may be substituted by O, NH, alkyl- or arylimino, S, CO, an ester or amide group and/or neighboring C-atoms may be connected via a double or triple bond), and m, n are 0 or 1 with m + n ≥ 1. Thus, N-biotinyl-N'-Fmoc-ethylenediamine-MPB-AM-resin [MPB = [4-(3-carboxypropoxy)-2-methoxyphenyl]methyl; Fmoc = fluorenylmethoxycarbonyl] was prepared and applied to the synthesis of H-Asp-Glu-Val-Asp-Ala-Arg-NHCH2CH2NH-biotinyl.

L8 ANSWER 2 OF 2 USPATFULL on STN
ACCESSION NUMBER: 2004:334867 USPATFULL Full-text
TITLE: Method and building blocks for preparing C-terminally labelled peptides
INVENTOR(S): White, Peter David, Southwell, UNITED KINGDOM
Beythien, Jorg Karl Wilheim, Budendorf, SWITZERLAND

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004265949	A1	20041230	
APPLICATION INFO.:	US 2003-607175	A1	20030626	(10)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: FRELING E. BAKER, BROWN MARTIN HALLER & MCCLAIM, 1660

UNION STREET, SAN DIEGO, CA, 92101

NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Page(s)
LINE COUNT: 1028
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for preparing C-terminally labelled peptides and building blocks to be used in this synthesis includes a trivalent nitrogen atom having at least one device for attachment to a solid support, one device for the attachment of amino acids and one device for attachment of a label, whereby the device for the attachment of amino acids and/or the device for the attachment of a label is a linker, e.g. an alkyl- or polyethyleneglycol- linker.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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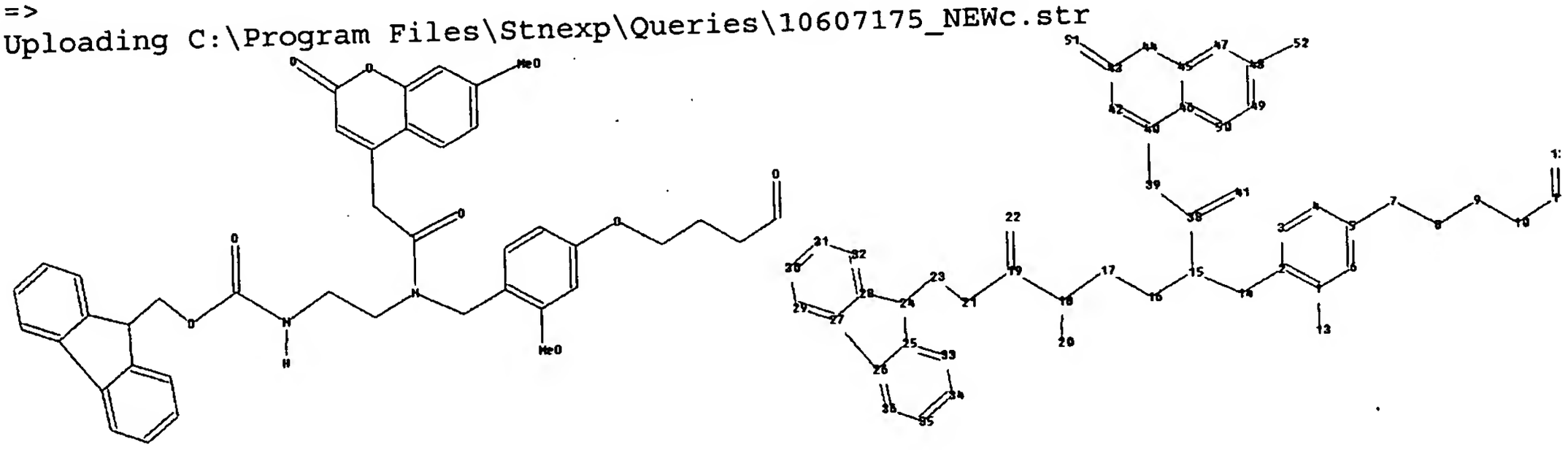

chain nodes :
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 38 39 41 51
52
ring nodes :
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44 45 46 47 48 49 50
chain bonds :
1-13 2-14 5-7 7-8 8-9 9-10 10-11 11-12 14-15 15-16 15-38 16-17 17-18
18-19 18-20 19-21 19-22 21-23 23-24 38-39 38-41 39-40 43-51 48-52
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 24-25 24-28 25-26 25-33 26-27 26-36 27-28 27-
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28-32 29-30 30-31 31-32 33-34 34-35 35-36 40-42 40-46 42-43 43-44 44-45
45-46 45-47
46-50 47-48 48-49 49-50
exact/norm bonds :
5-7 7-8 11-12 14-15 15-16 15-38 17-18 18-19 19-21 19-22 21-23 38-41 40-
42
40-46 42-43 43-44 43-51 44-45
exact bonds :
1-13 2-14 8-9 9-10 10-11 16-17 18-20 23-24 24-25 24-28 26-27 38-39 39-
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48-52
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 25-26 25-33 26-36 27-28 27-29 28-32 29-30 30-

31
31-32 33-34 34-35 35-36 45-46 45-47 46-50 47-48 48-49 49-50
isolated ring systems :
containing 1 : 24 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS
21:CLASS 22:CLASS 23:CLASS 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom
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32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 38:CLASS 39:CLASS 40:Atom 41:CLASS
42:Atom
43:Atom 44:Atom 45:Atom 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom 51:CLASS
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L9 STRUCTURE UPLOADED

=> **s l9 full**

L10 1 SEA SSS FUL L9

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SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L11 2 L10

=> **d l11 1-2 ibib, abs**

L11 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:2014 CAPLUS Full-text
DOCUMENT NUMBER: 142:94138
TITLE: Method and building blocks for preparing C-terminally labeled peptides
INVENTOR(S): White, Peter David; Beythien, Jorg Karl Wilheim
PATENT ASSIGNEE(S): UK
SOURCE: U.S. Pat. Appl. Publ., 21 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

US 2004265949 A1 20041230 US 2003-607175 20030626
PRIORITY APPLN. INFO.: US 2003-607175 20030626
OTHER SOURCE(S): MARPAT 142:94138

AB The invention relates to a solid-phase method for preparing C-terminally labeled peptides and building blocks to be used in this synthesis. The building blocks have formula A-N(Lm-B)Kn-C, where A is a functionality for the attachment to a solid support or a functionality already comprising a solid support, B is a functionality for the attachment of one or more amino acids or peptides or a functionality already comprising one or more amino acids or peptides, C is a functionality for the attachment of one or more labels or a functionality already comprising one or more labels, K, L are independently (un)substituted alkyl chains with at least two C-atoms (one or more non-neighboring C-atoms may be substituted by O, NH, alkyl- or arylimino, S, CO, an ester or amide group and/or neighboring C-atoms may be connected via a double or triple bond), and m, n are 0 or 1 with m + n ≥ 1. Thus, N-biotinyl-N'-Fmoc-ethylenediamine-MPB-AM-resin [MPB = [4-(3-carboxypropoxy)-2-methoxyphenyl]methyl; Fmoc = fluorenylmethoxycarbonyl] was prepared and applied to the synthesis of H-Asp-Glu-Val-Asp-Ala-Arg-NHCH2CH2NH-biotinyl.

L11 ANSWER 2 OF 2 USPATFULL on STN
ACCESSION NUMBER: 2004:334867 USPATFULL Full-text
TITLE: Method and building blocks for preparing C-terminally labelled peptides
INVENTOR(S): White, Peter David, Southwell, UNITED KINGDOM
Beythien, Jorg Karl Wilheim, Budendorf, SWITZERLAND

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004265949	A1	20041230	
APPLICATION INFO.:	US 2003-607175	A1	20030626	(10)
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	APPLICATION			
LEGAL REPRESENTATIVE:	FRELING E. BAKER, BROWN MARTIN HALLER & MCCLAIM, 1660 UNION STREET, SAN DIEGO, CA, 92101			
NUMBER OF CLAIMS:	9			
EXEMPLARY CLAIM:	1			
NUMBER OF DRAWINGS:	5 Drawing Page(s)			
LINE COUNT:	1028			

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for preparing C-terminally labelled peptides and building blocks to be used in this synthesis includes a trivalent nitrogen atom having at least one device for attachment to a solid support, one device for the attachment of amino acids and one device for attachment of a label, whereby the device for the attachment of amino acids and/or the device for the attachment of a label is a linker, e.g. an alkyl- or polyethyleneglycol- linker.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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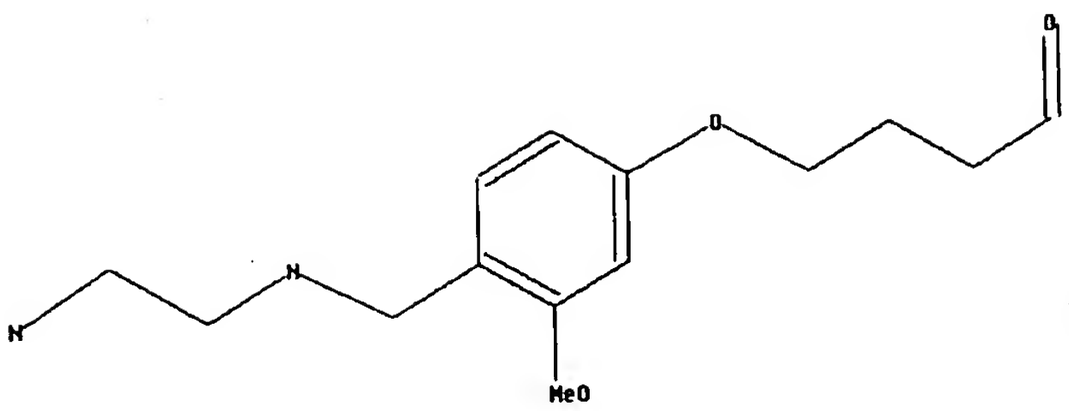
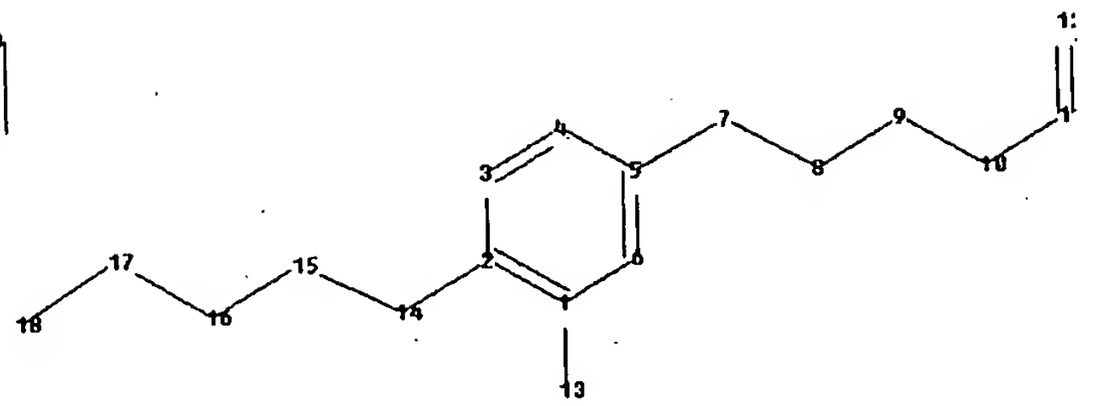


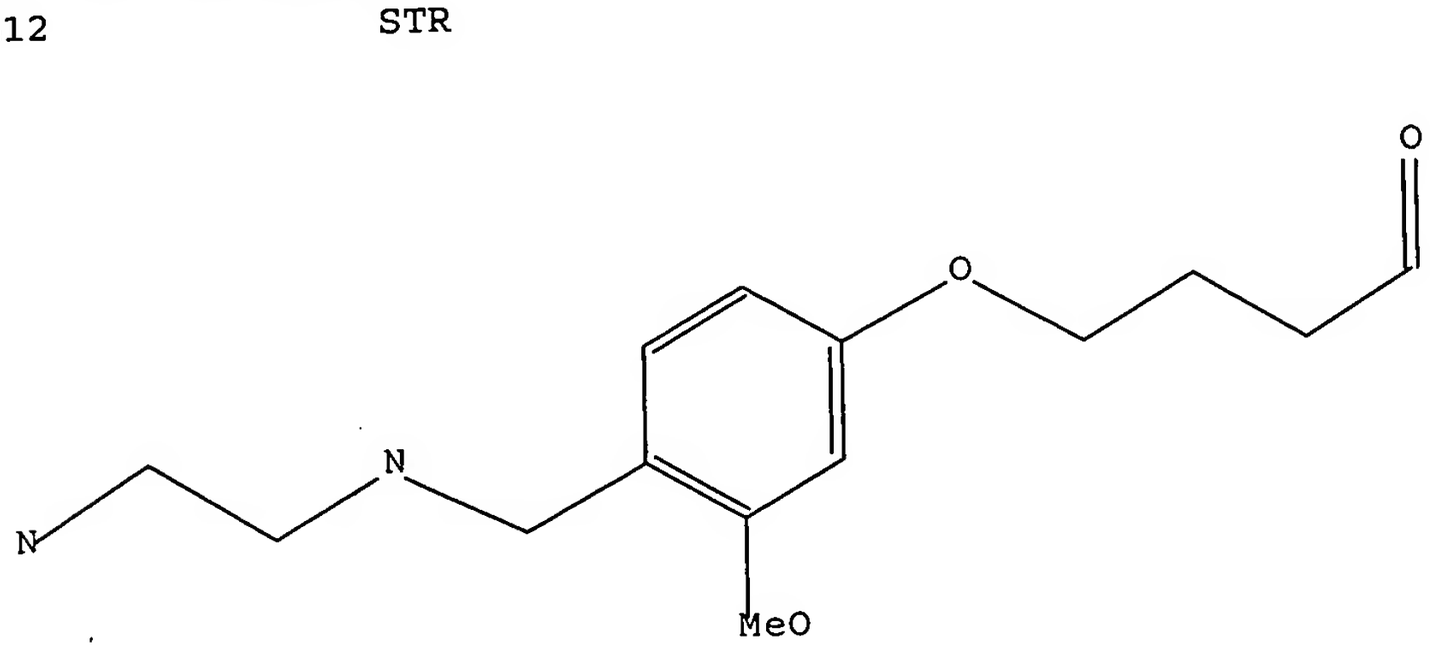


chain nodes :
7 8 9 10 11 12 13 14 15 16 17 18
ring nodes :
1 2 3 4 5 6
chain bonds :
1-13 2-14 5-7 7-8 8-9 9-10 10-11 11-12 14-15 15-16 16-17 17-18
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
5-7 7-8 11-12 14-15 15-16 17-18
exact bonds :
1-13 2-14 8-9 9-10 10-11 16-17
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS

L12 STRUCTURE UPLOADED

=> **d 112**
L12 HAS NO ANSWERS
L12 STR



Structure attributes must be viewed using STN Express query preparation.

=> **s l12 full**
FULL SEARCH INITIATED 13:22:22 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 580 TO ITERATE

116 ANSWERS

100.0% PROCESSED 580 ITERATIONS
SEARCH TIME: 00.00.01

L13 116 SEA SSS FUL L12

=> **file medline, caplus, wpids, uspatfull**

=> **s l13**
SAMPLE SEARCH INITIATED 13:22:37 FILE 'WPIDS'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

0 ANSWERS

100.0% PROCESSED 0 ITERATIONS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L14 12 L13

=> **s l14 and peptide**
L15 10 L14 AND PEPTIDE

=> **d l15 1-10 ibib, abs, hitstr**

NOT PRIOR ART

L15 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:684408 CAPLUS Full-text
DOCUMENT NUMBER: 146:179191
TITLE: A method for rapid protease substrate evaluation and optimization
AUTHOR(S): Kozlov, Igor A.; Melnyk, Peter C.; Zhao, Chanfeng; Hachmann, John P.; Shevchenko, Veronika; Srinivasan, Anu; Barker, David L.; Lebl, Michal
CORPORATE SOURCE: Illumina, Inc., San Diego, CA, 92121-1975, USA
SOURCE: Combinatorial Chemistry & High Throughput Screening (2006), 9(6), 481-487
CODEN: CCHSFU; ISSN: 1386-2073
PUBLISHER: Bentham Science Publishers Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB We have developed a high throughput assay for the measurement of protease activity in solution This technol. will accelerate research in functional proteomics and enable biologists to streamline protease substrate evaluation and optimization. The peptide sequences that serve as protease substrates in this assay are labeled on the carboxy terminus with a biotin moiety and a fluorescent tag is attached to the amino terminus. Protease cleavage causes the biotin containing fragment to be detached from the labeled peptide fragment. Following the protease treatment, all biotin containing species (uncleaved substrates and the cleaved carboxy-terminal fragment of the substrate) are removed by incubation with streptavidin beads. The cleaved fluorescently labeled amino-terminal part of the substrate remains in solution The measured fluorescence intensity of the solution is directly proportional to the activity of the protease. This assay was validated using trypsin,

chymotrypsin, caspase-3, subtilisin-A, enterokinase and tobacco etch virus protease.

IT 921939-51-7D, fluorescein labeled 921939-53-9D, fluorescein labeled 921939-55-1D, fluorescein labeled 921939-56-2D, fluorescein labeled 921939-57-3D, fluorescein labeled 921939-58-4D, fluorescein labeled 921939-59-5D, fluorescein labeled 921939-60-8D, fluorescein labeled 921939-61-9D, fluorescein labeled 921939-62-0D, fluorescein labeled 921939-63-1D, fluorescein labeled 921939-64-2D, fluorescein labeled 921939-65-3D, fluorescein labeled 921939-66-4D, fluorescein labeled 921939-67-5D, fluorescein labeled 921939-68-6D, fluorescein labeled 921939-69-7D, fluorescein labeled 921939-70-0D, fluorescein labeled 921939-71-1D, fluorescein labeled 921939-72-2D, fluorescein labeled 921939-73-3D, fluorescein labeled 921939-74-4D, fluorescein labeled 921939-75-5D, fluorescein labeled 921939-76-6D, fluorescein labeled 921939-77-7D, fluorescein labeled 921939-78-8D, fluorescein labeled 921939-79-9D, fluorescein labeled 921939-80-2D, fluorescein labeled 921939-81-3D, fluorescein labeled 921939-82-4D, fluorescein labeled 921939-83-5D, fluorescein labeled 921939-84-6D, fluorescein labeled 921939-85-7D, fluorescein labeled 921939-86-8D, fluorescein labeled 921939-87-9D, fluorescein labeled 921939-88-0D, fluorescein labeled 921939-89-1D, fluorescein labeled 921939-90-4D, fluorescein labeled 921939-91-5D, fluorescein labeled 921939-92-6D, fluorescein labeled 921939-93-7D, fluorescein labeled 921939-94-8D, fluorescein labeled 921939-95-9D, fluorescein labeled 921939-96-0D, fluorescein labeled 921939-97-1D, fluorescein labeled 921939-98-2D, fluorescein labeled 921939-99-3D, fluorescein labeled 921940-00-3D, fluorescein labeled 921940-01-4D, fluorescein labeled 921940-02-5D, fluorescein labeled 921940-03-6D, fluorescein labeled 921940-05-8D, fluorescein labeled 921940-07-0D, fluorescein labeled 921940-09-2D, fluorescein labeled 921940-11-6D, fluorescein labeled 921940-13-8D, fluorescein labeled 921940-14-9D, fluorescein labeled 921940-15-0D, fluorescein labeled 921940-16-1D, fluorescein labeled 921940-17-2D, fluorescein labeled 921940-18-3D, fluorescein labeled 921940-19-4D, fluorescein labeled 921940-20-7D, fluorescein labeled 921940-21-8D, fluorescein labeled 921940-22-9D, fluorescein labeled 921940-23-0D, fluorescein labeled 921940-24-1D, fluorescein labeled 921940-25-2D, fluorescein labeled 921940-26-3D, fluorescein labeled 921940-27-4D, fluorescein labeled 921940-28-5D, fluorescein labeled 921940-29-6D, fluorescein labeled 921940-30-9D, fluorescein labeled 921940-31-0D, fluorescein labeled 921940-32-1D, fluorescein labeled 921940-33-2D, fluorescein labeled 921940-34-3D, fluorescein labeled 921940-35-4D, fluorescein labeled 921940-36-5D, fluorescein labeled 921940-37-6D, fluorescein labeled 921940-38-7D, fluorescein labeled 921940-39-8D, fluorescein labeled 921940-40-1D, fluorescein labeled 921940-41-2D, fluorescein labeled 921940-42-3D, fluorescein labeled 921940-43-4D, fluorescein labeled 921940-44-5D, fluorescein labeled

921940-45-6D, fluorescein labeled 921940-46-7D, fluorescein labeled 921940-47-8D, fluorescein labeled 921940-48-9D, fluorescein labeled 921940-49-0D, fluorescein labeled
RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(substrate; high throughput method for rapid proteinase substrate evaluation and optimization)

RN 921939-51-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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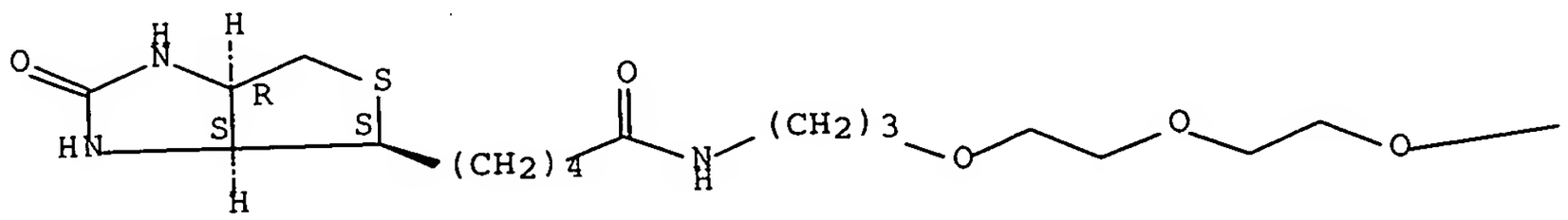

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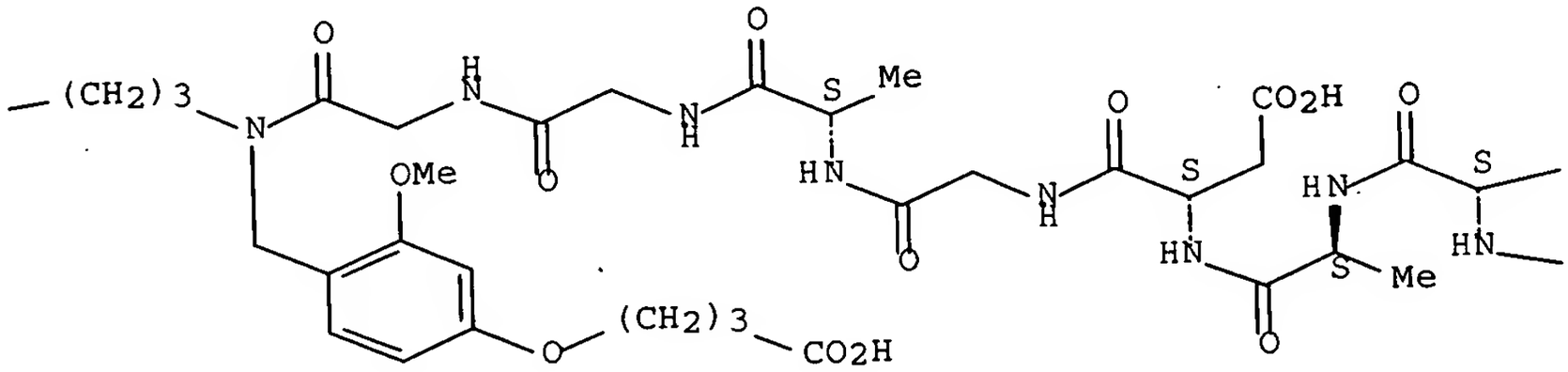

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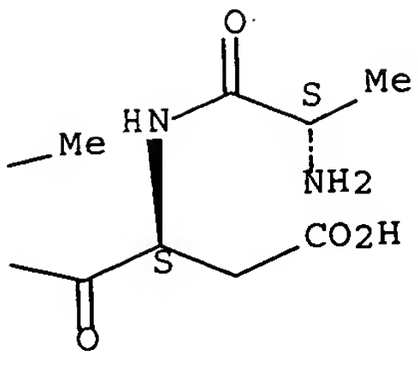

RN 921939-53-9 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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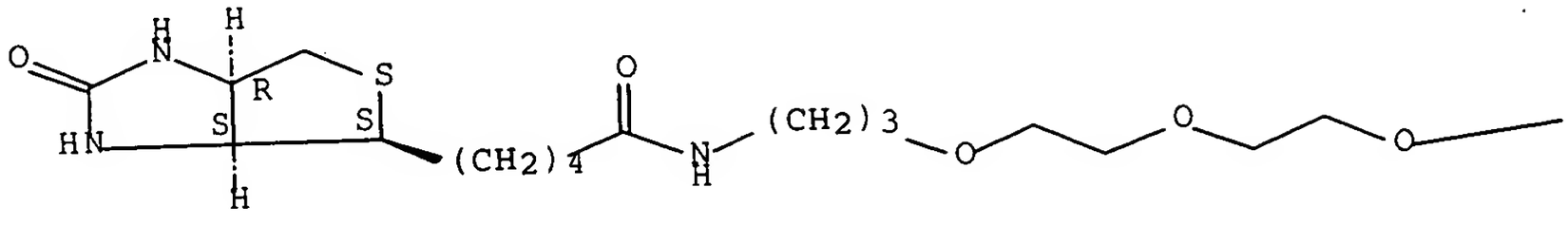

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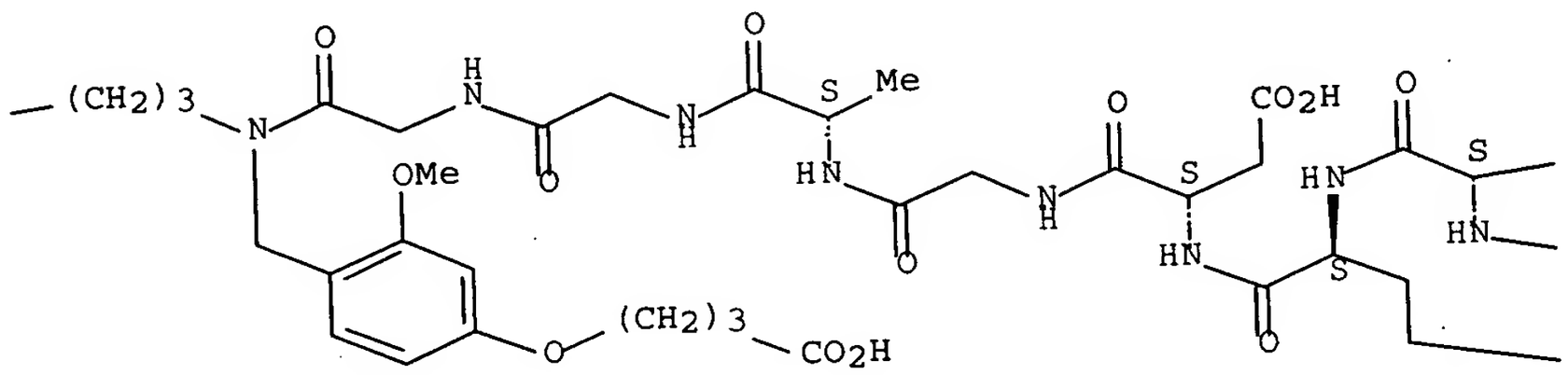

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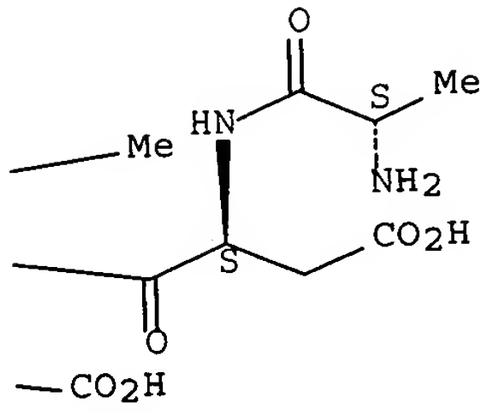
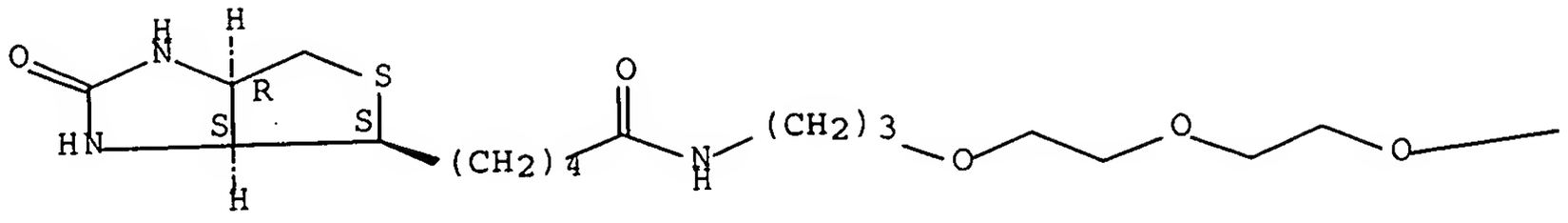


RN 921939-55-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

PAGE 1-A



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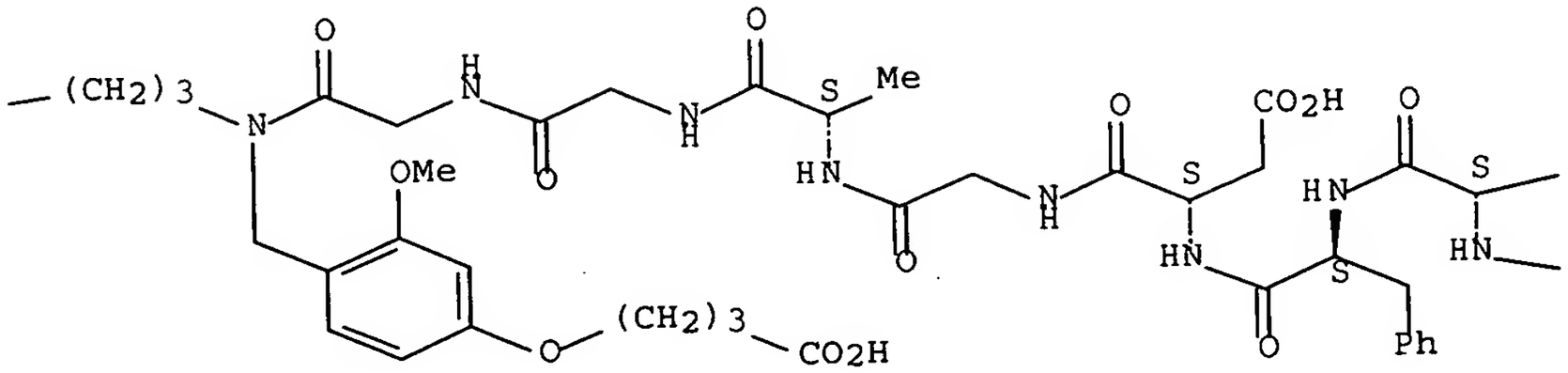

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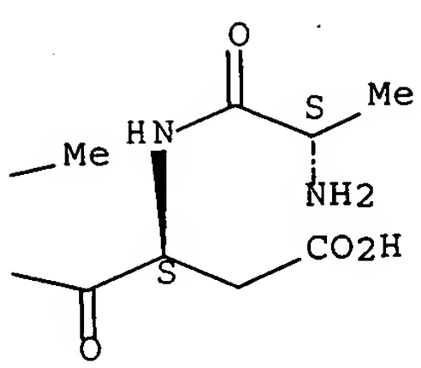
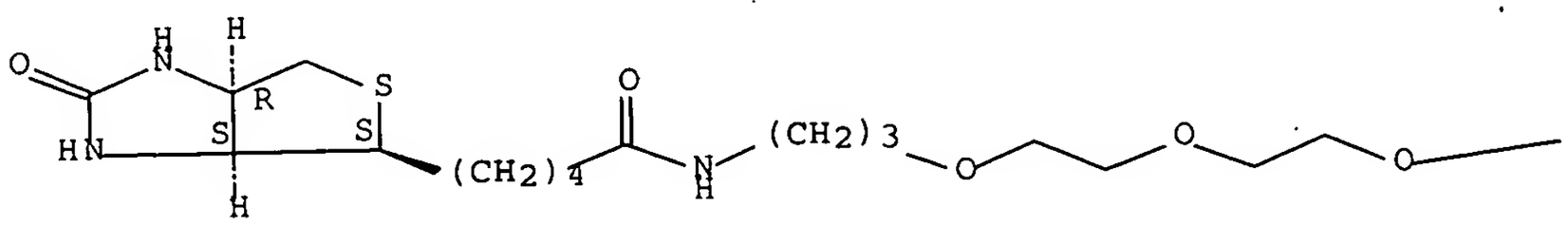


RN 921939-56-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

PAGE 1-A



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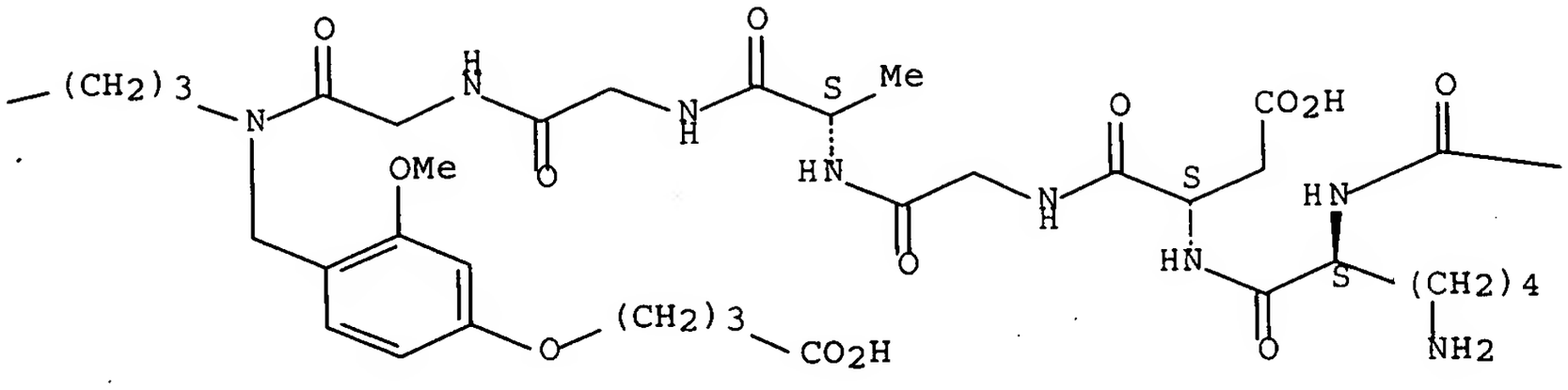

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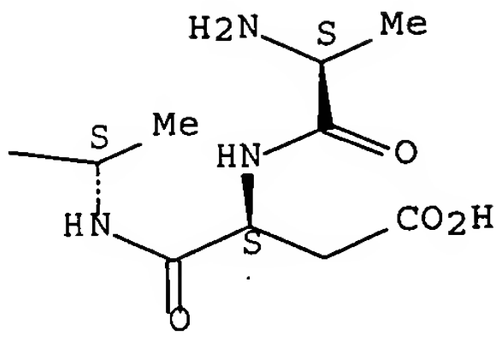
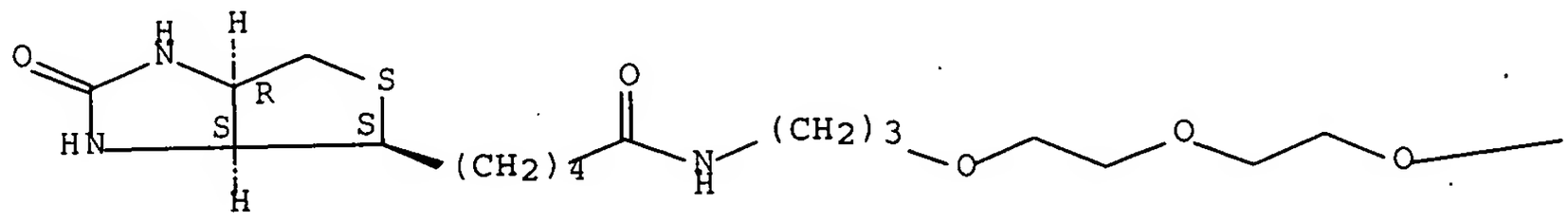
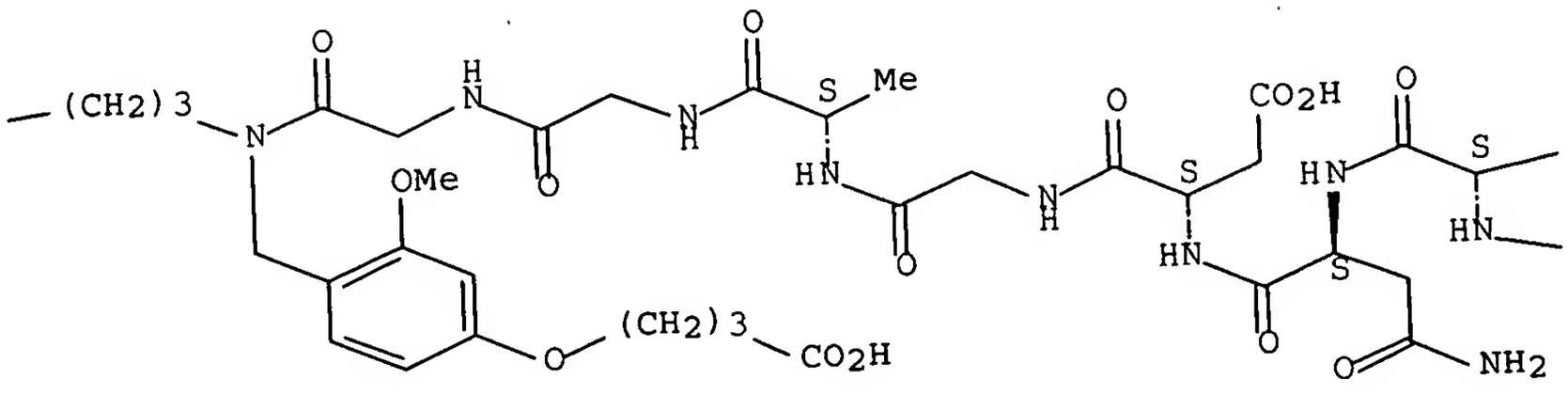


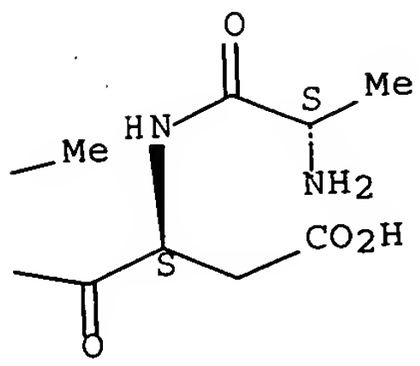
RN 921939-57-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

PAGE 1-A

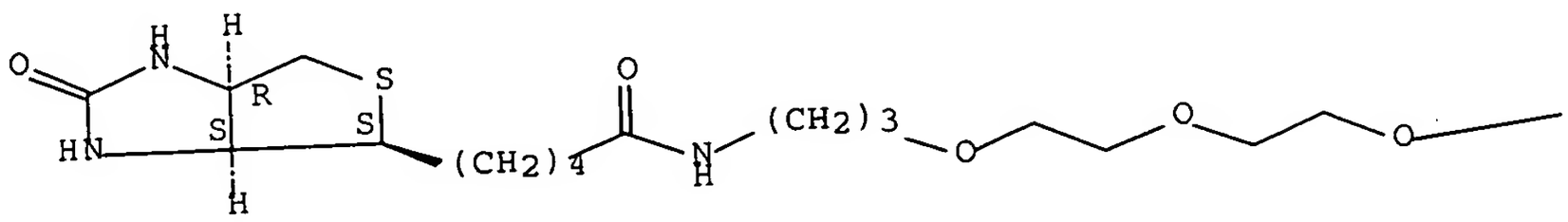


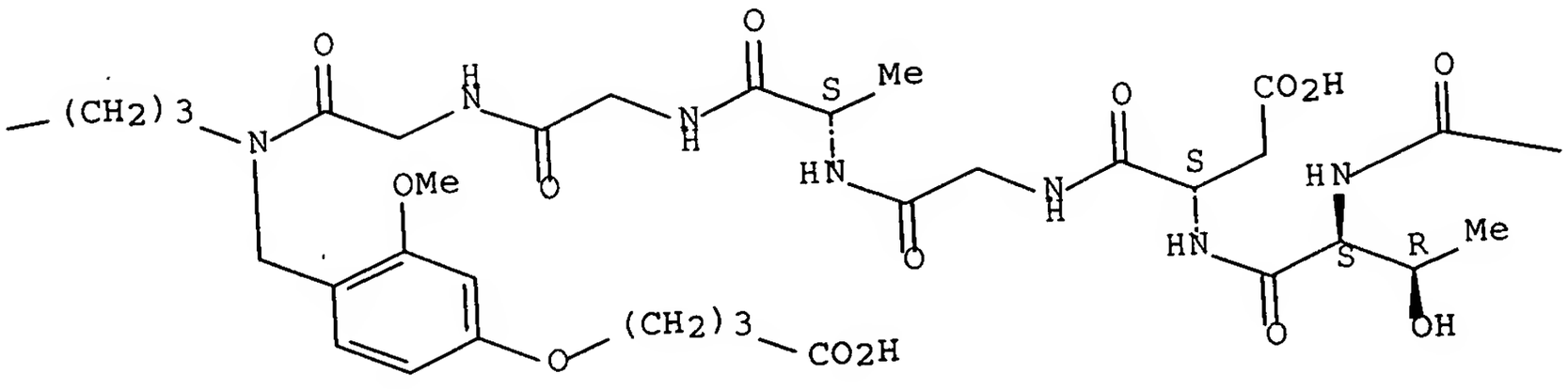


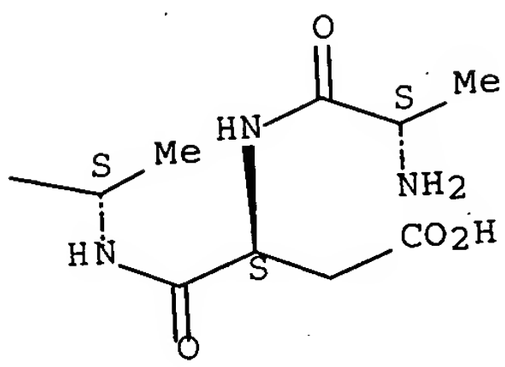


RN 921939-58-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

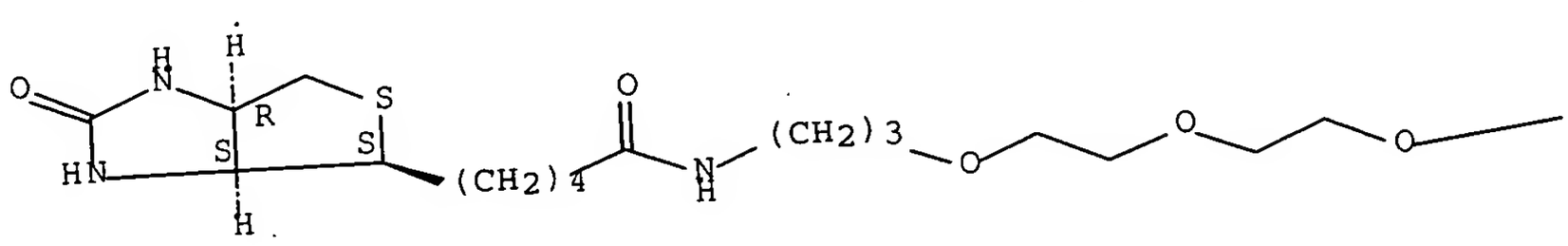


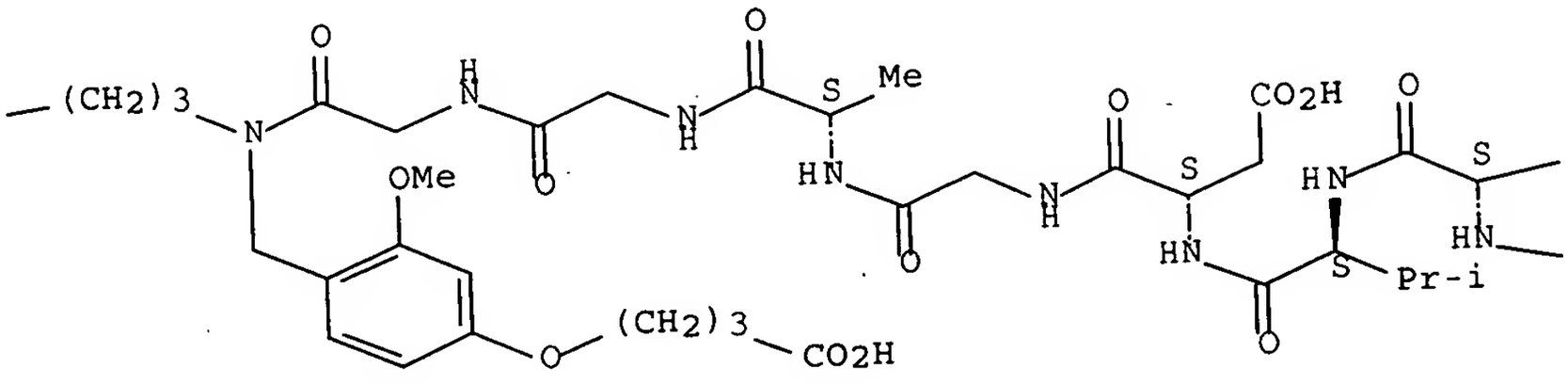


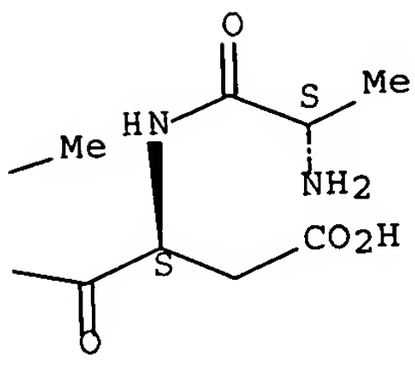


RN 921939-59-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

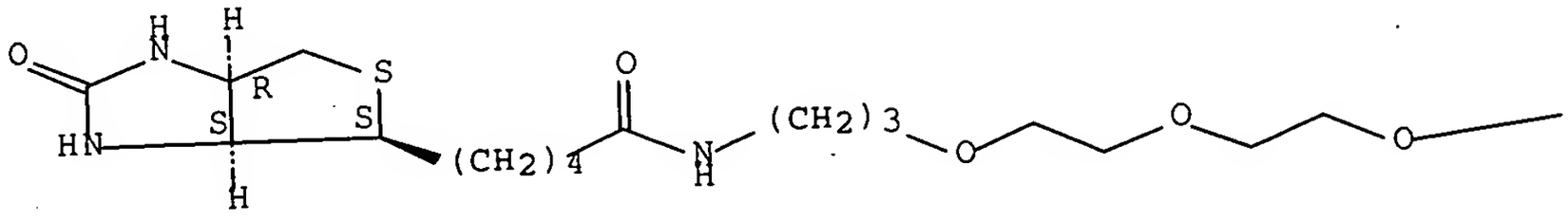






RN 921939-60-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.



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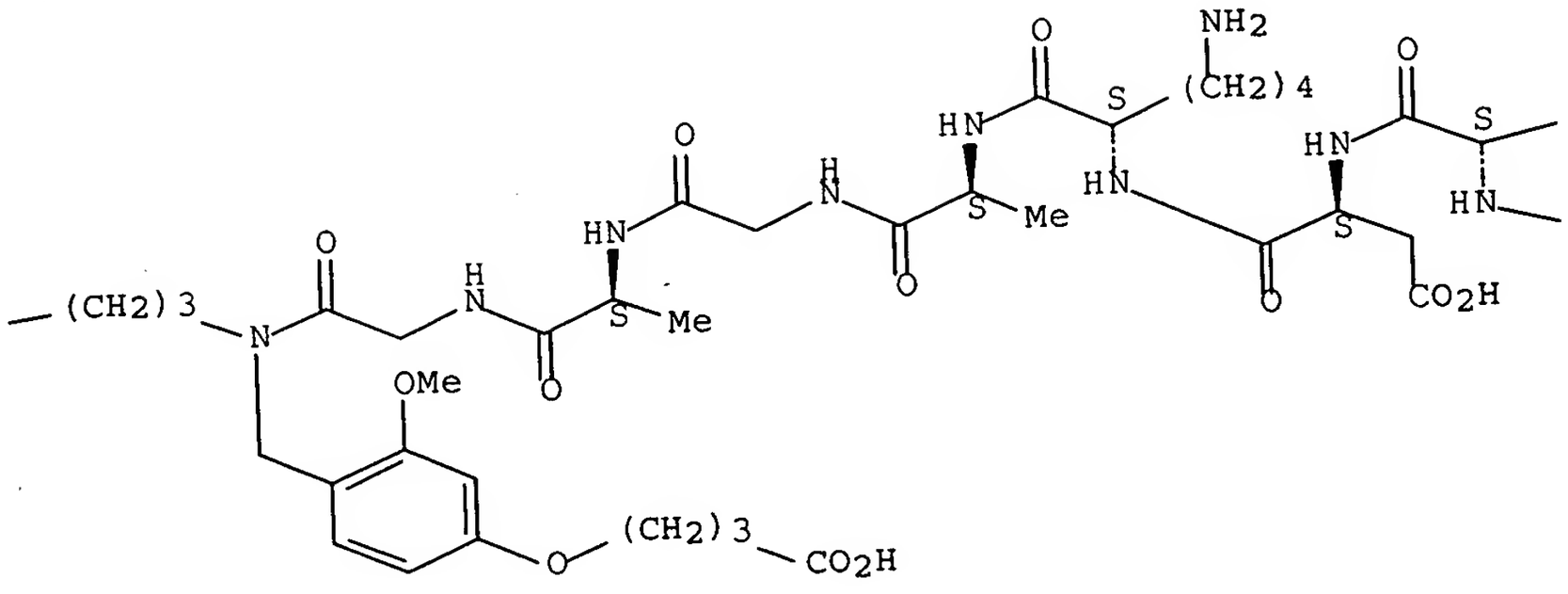

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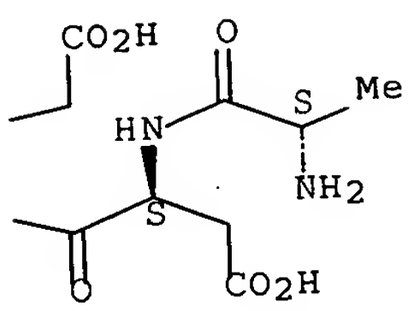

RN 921939-61-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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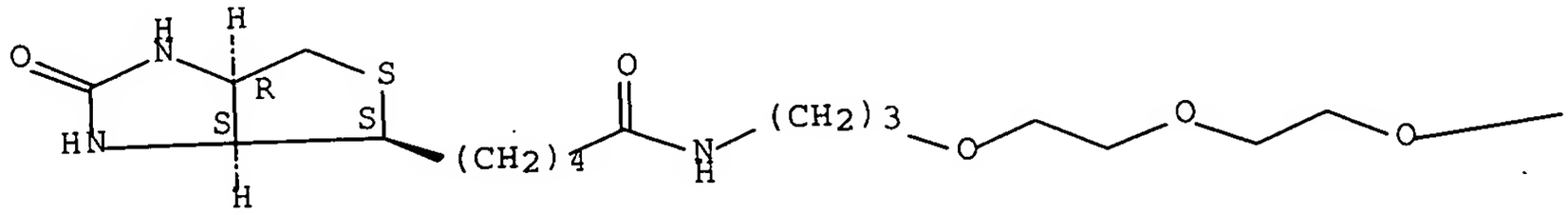
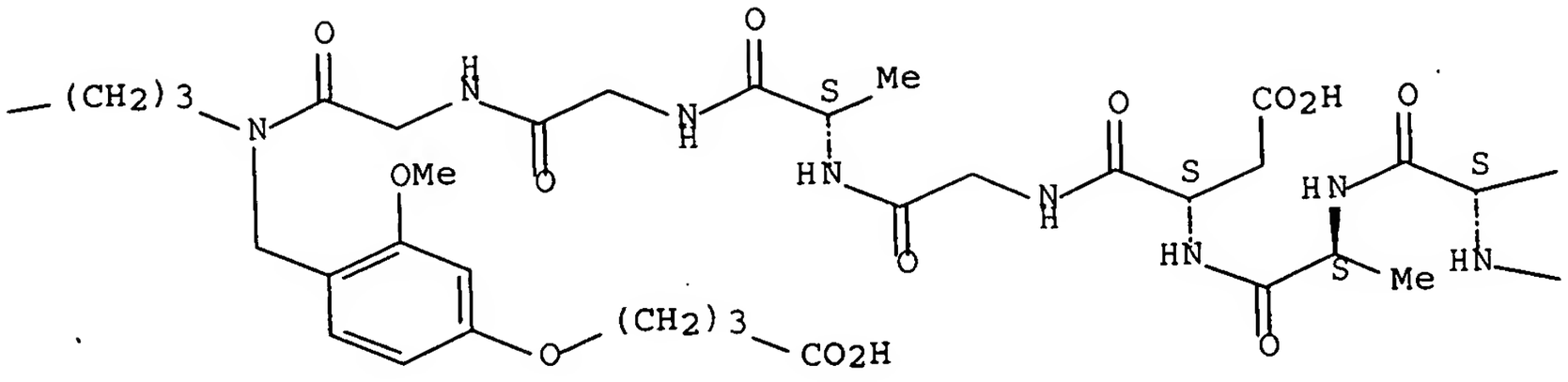
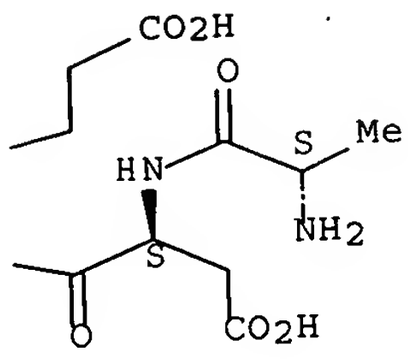
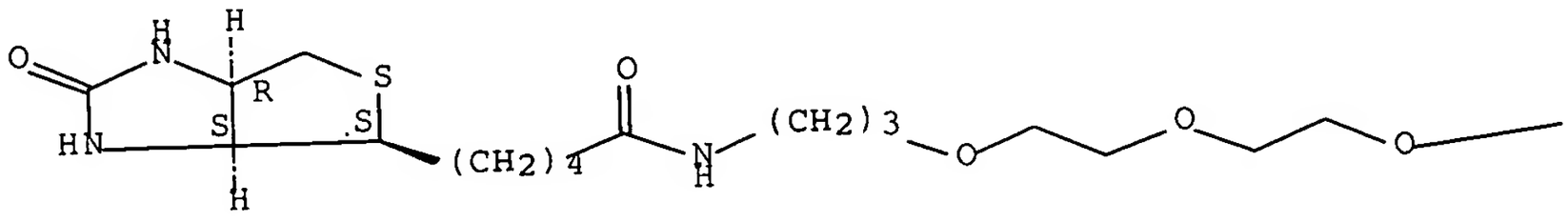






RN 921939-62-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.



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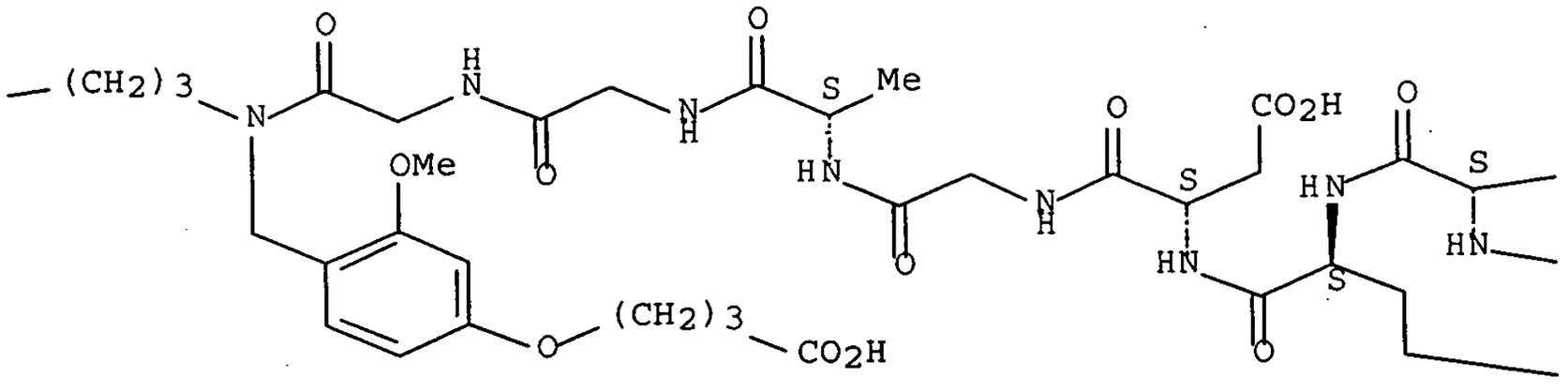

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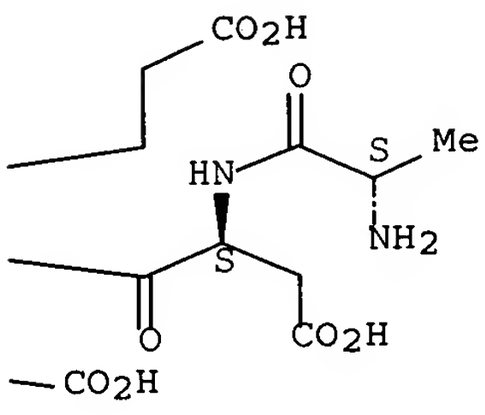
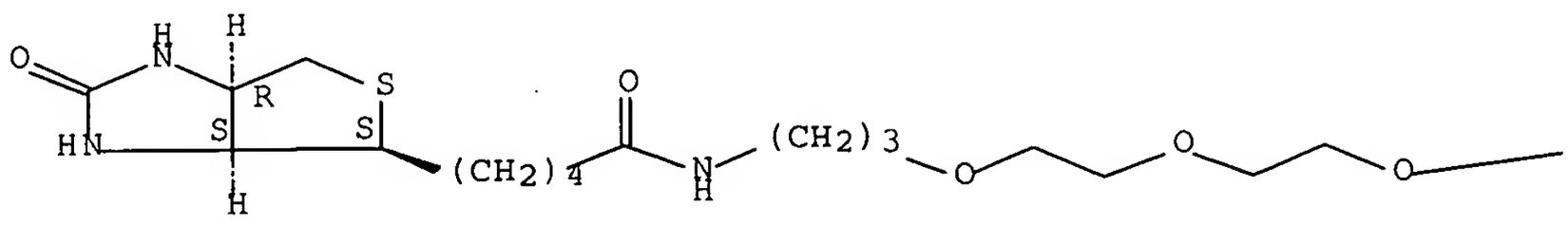
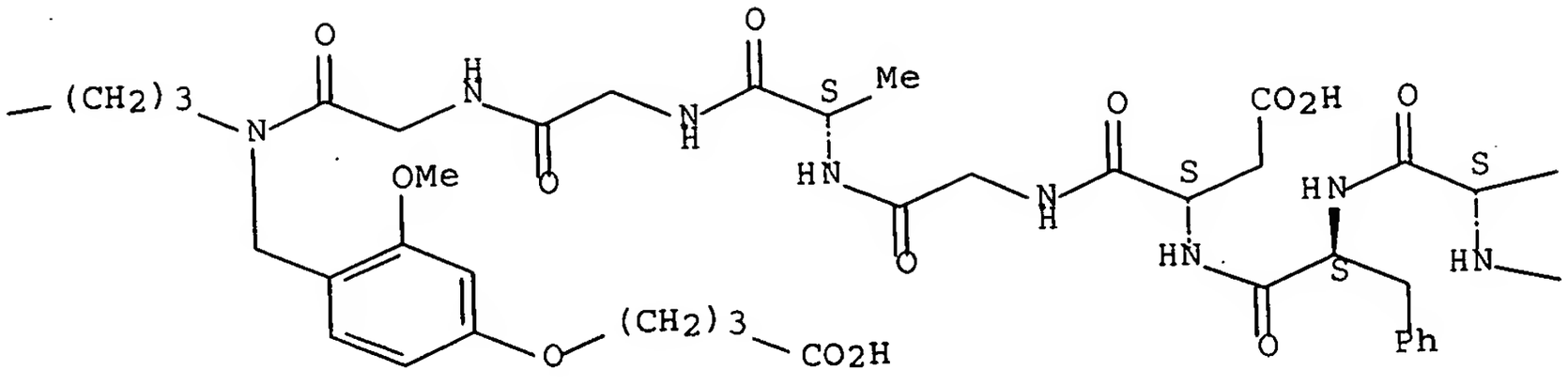


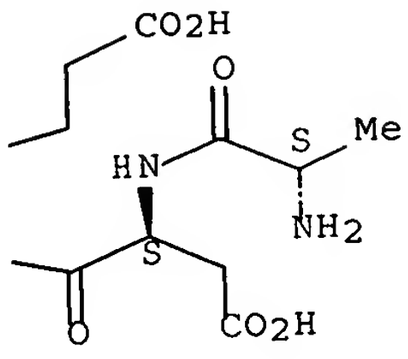
RN 921939-63-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

PAGE 1-A







RN 921939-64-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

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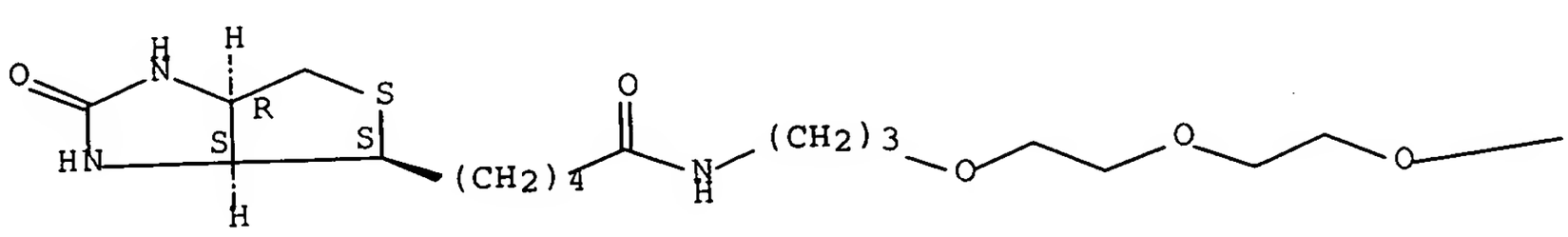
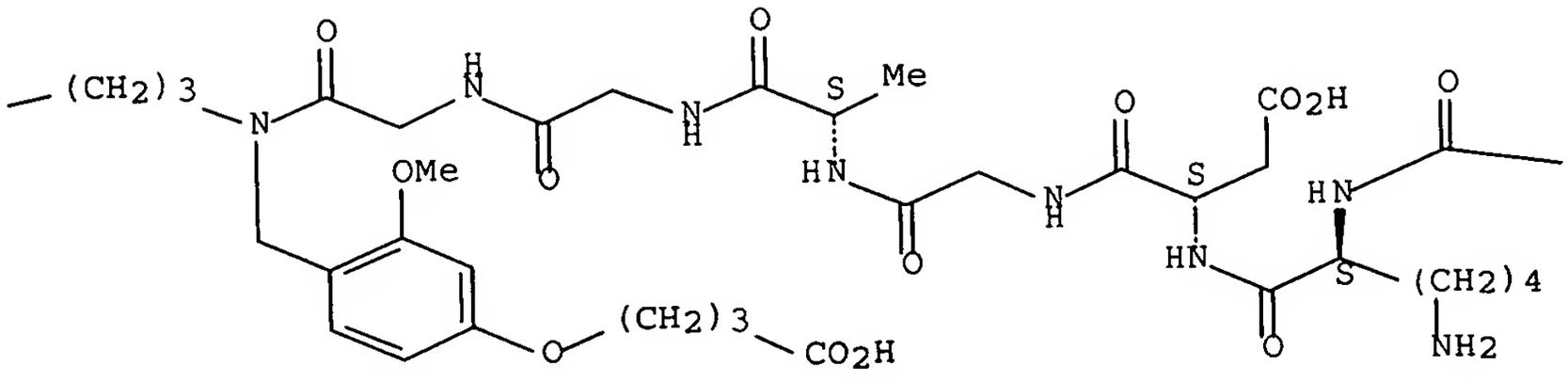
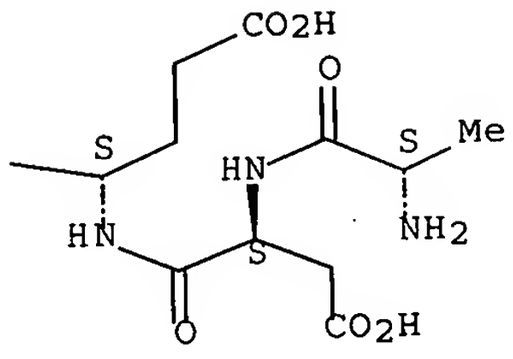
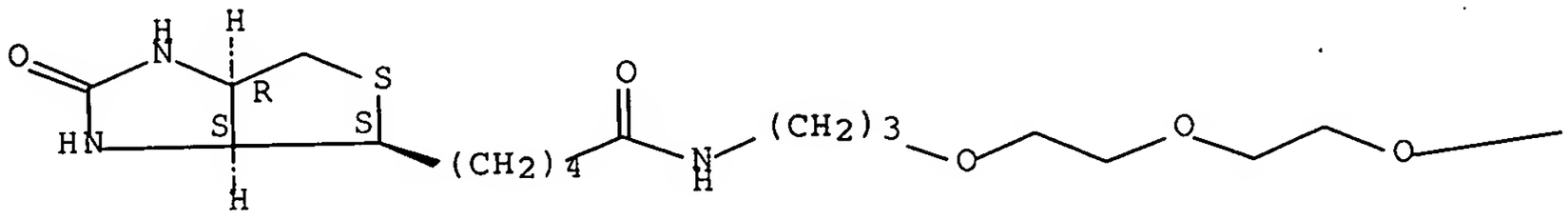






RN 921939-65-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.



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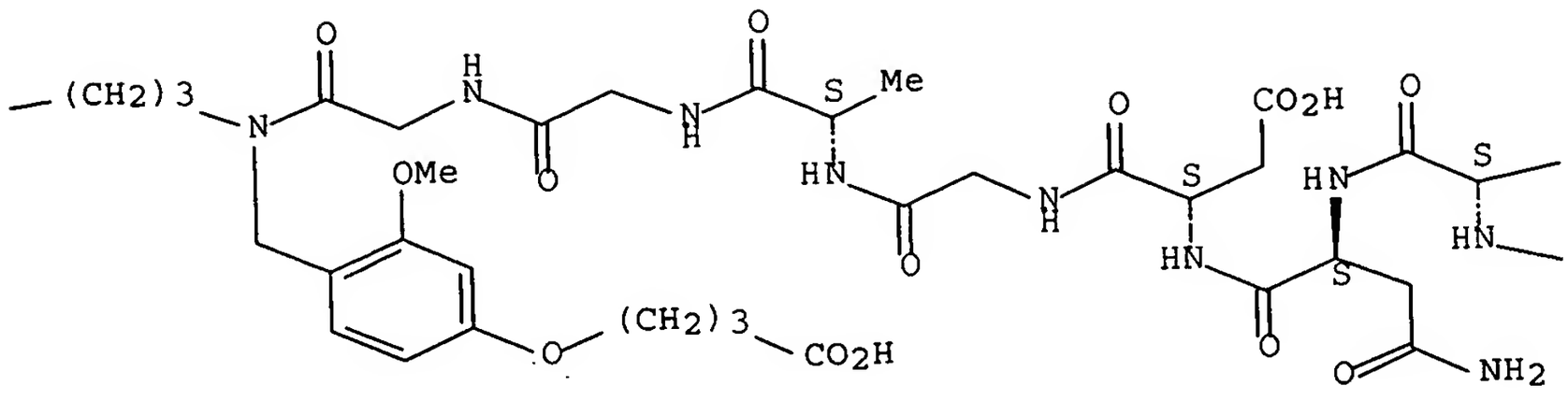

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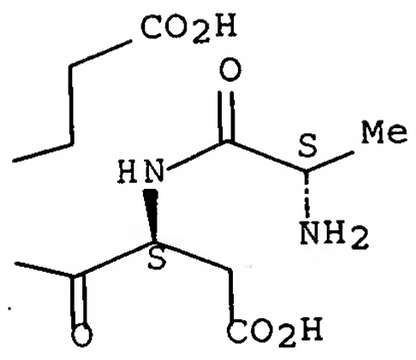
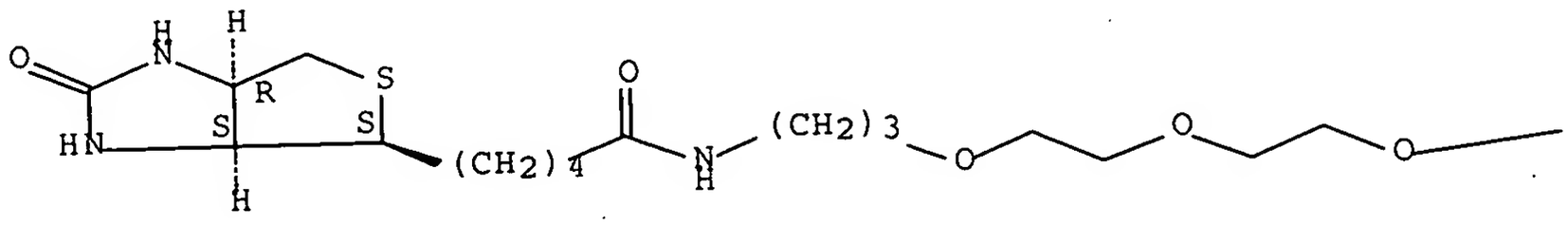
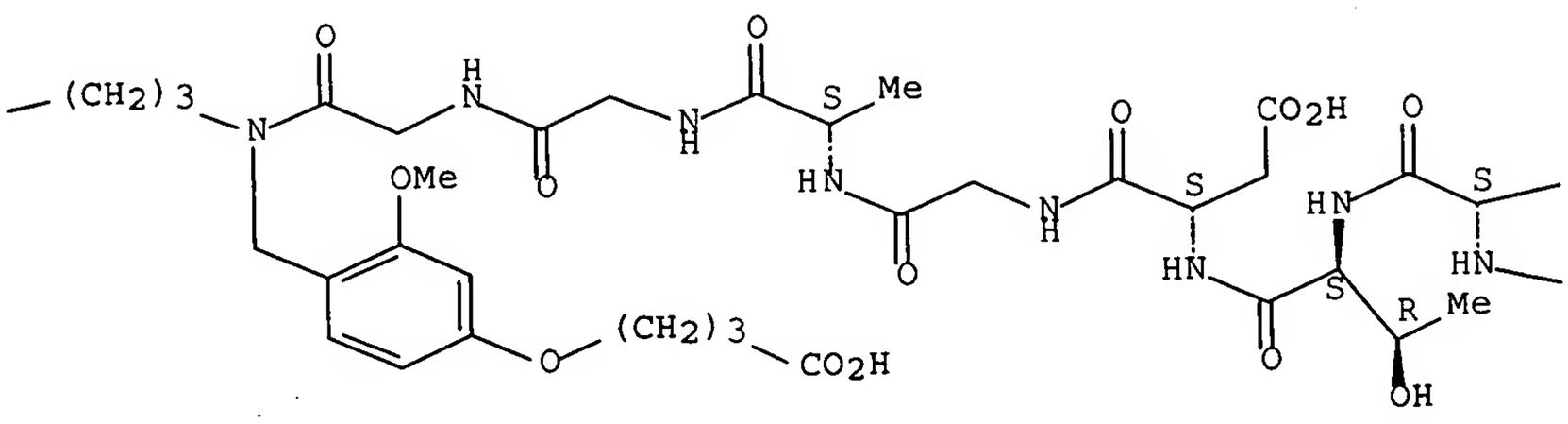


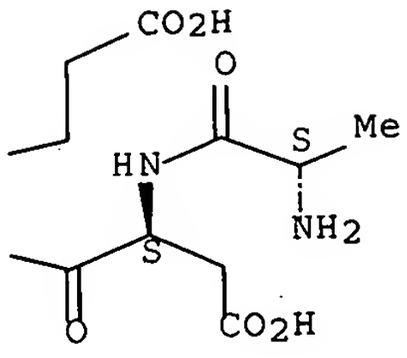
RN 921939-66-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

PAGE 1-A

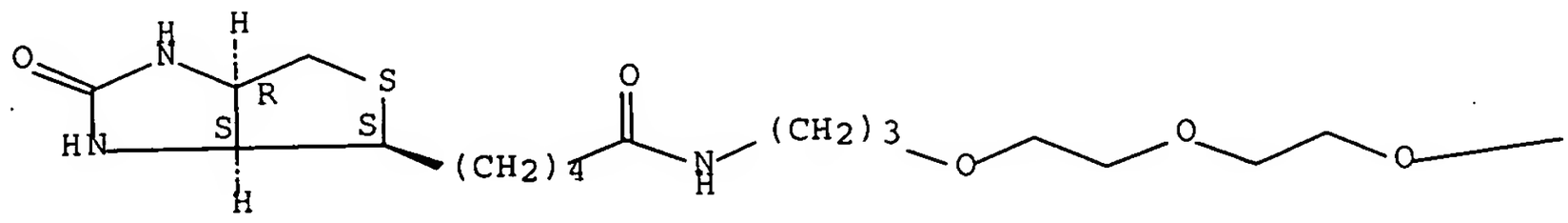


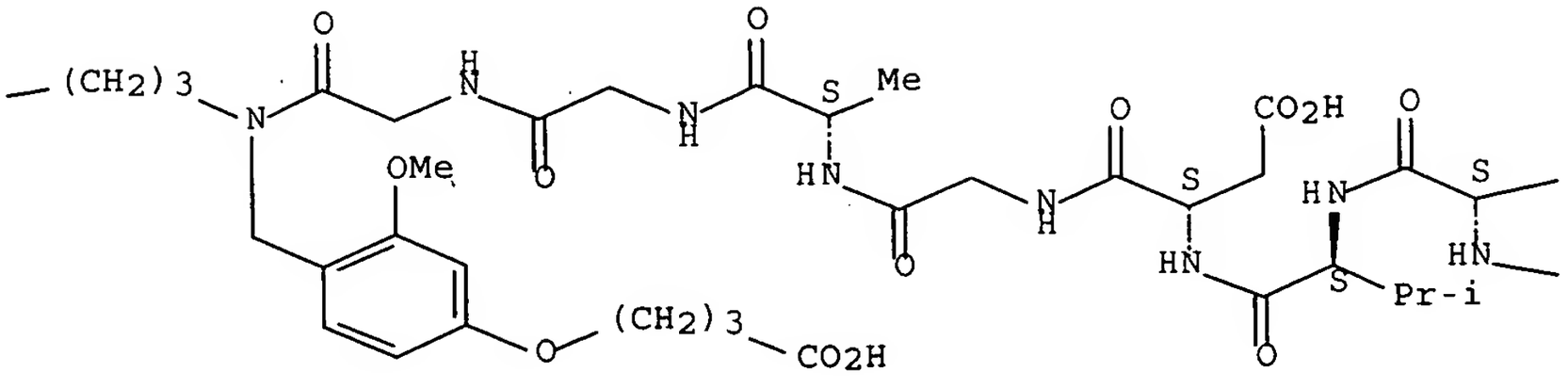


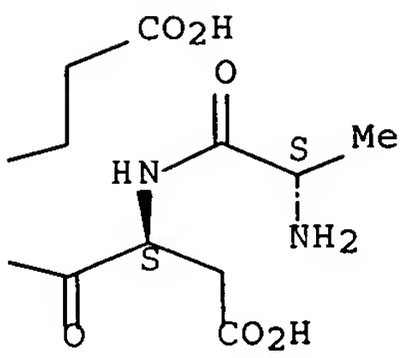


RN 921939-67-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

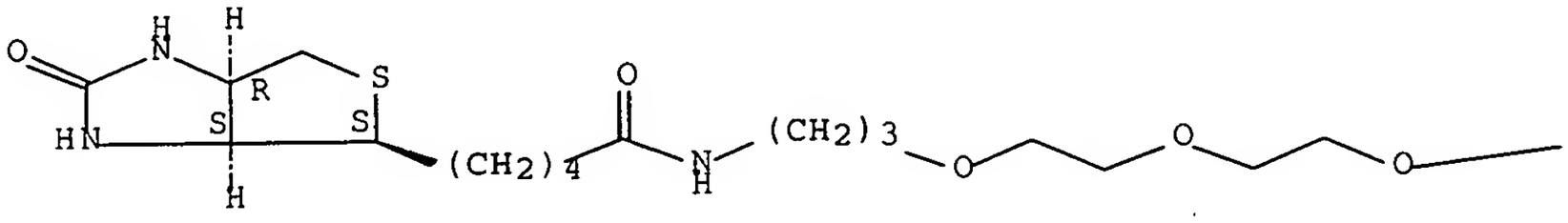


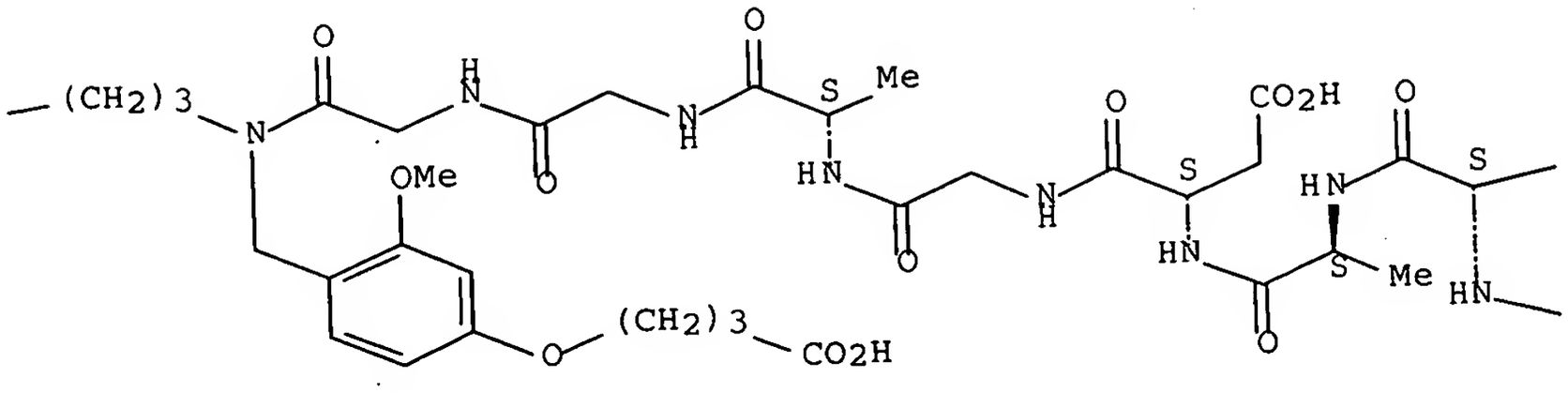


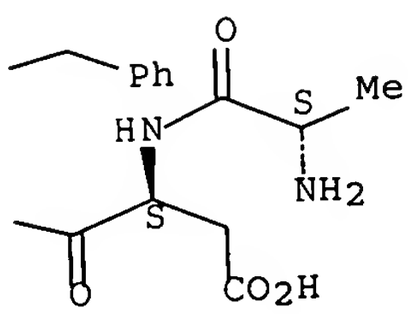


RN 921939-68-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

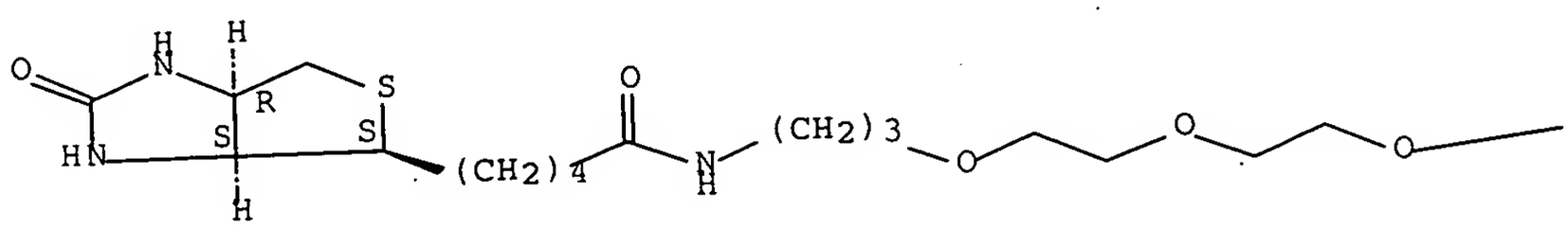






RN 921939-69-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.



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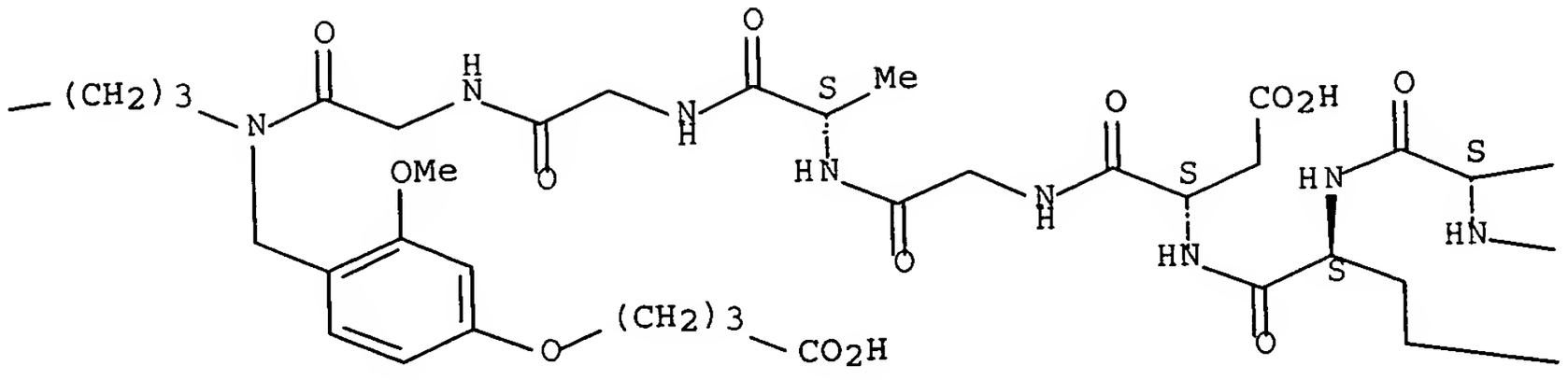

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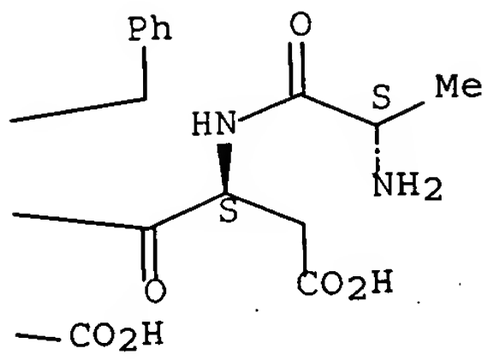

RN 921939-70-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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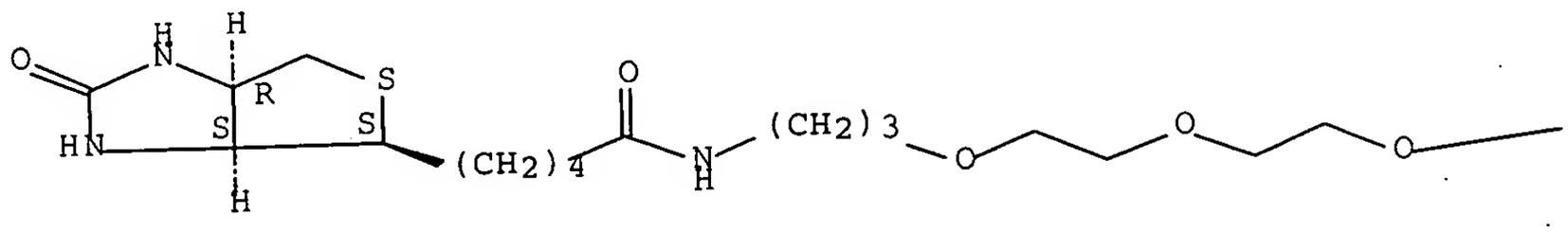

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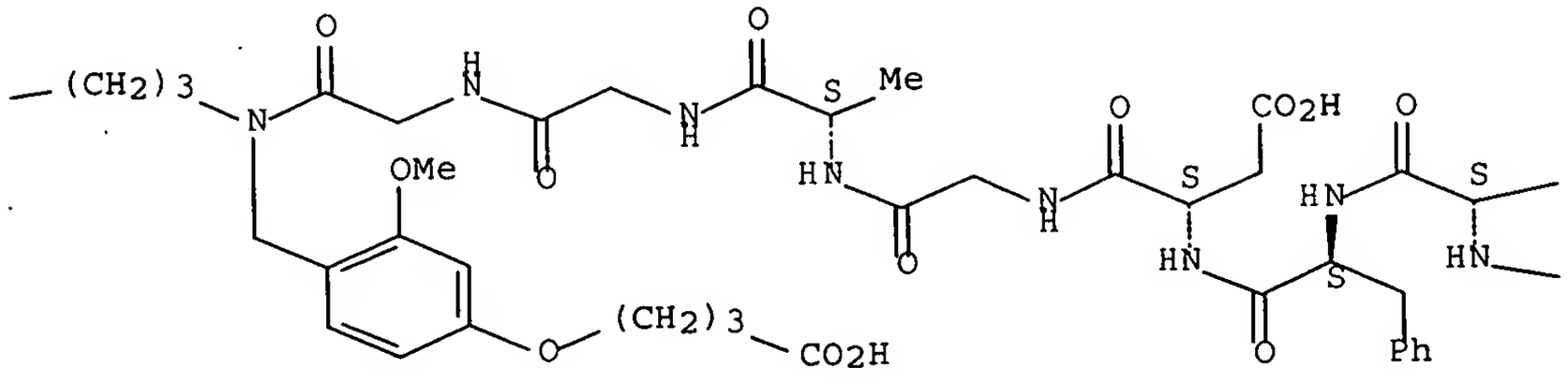

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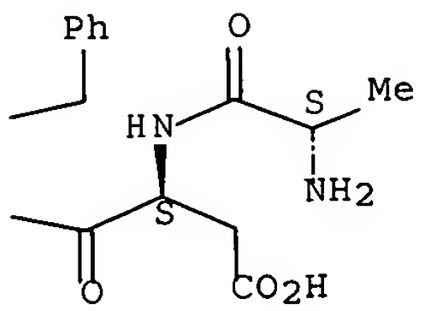

RN 921939-71-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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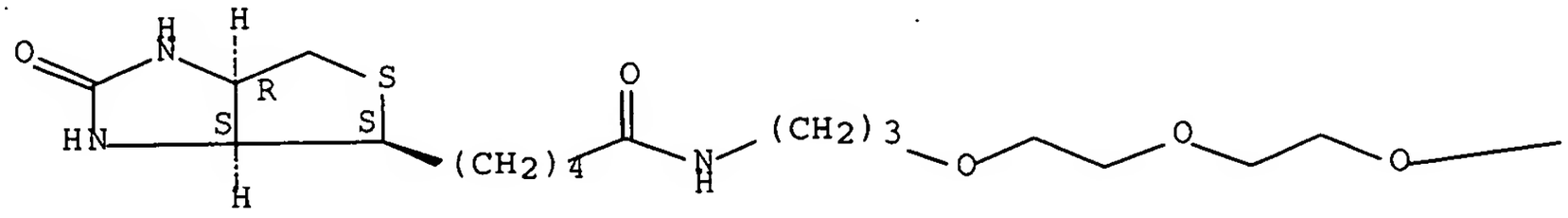

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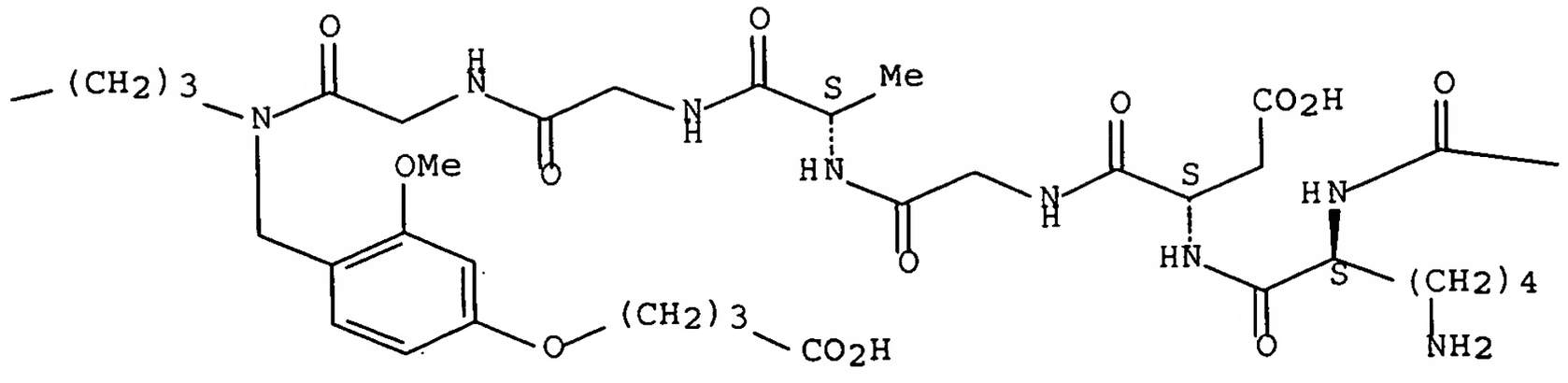

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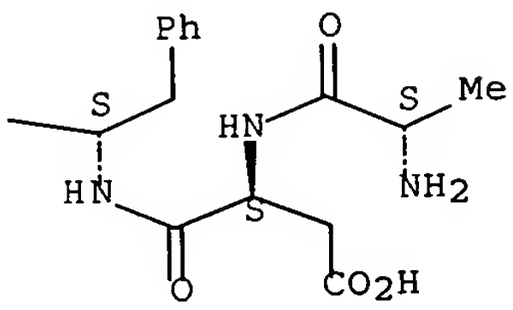

RN 921939-72-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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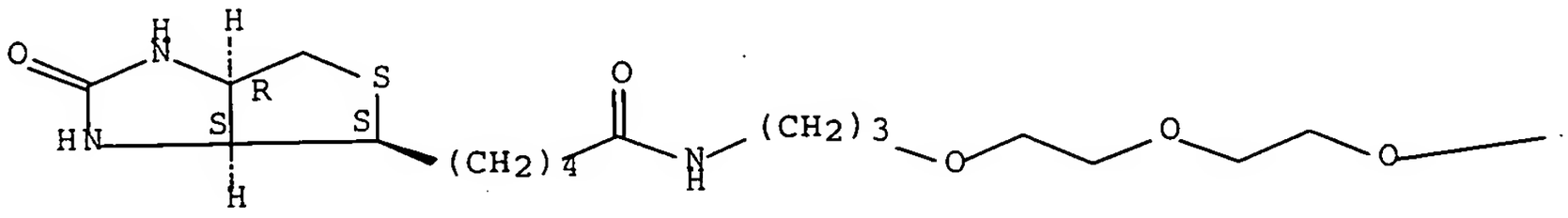

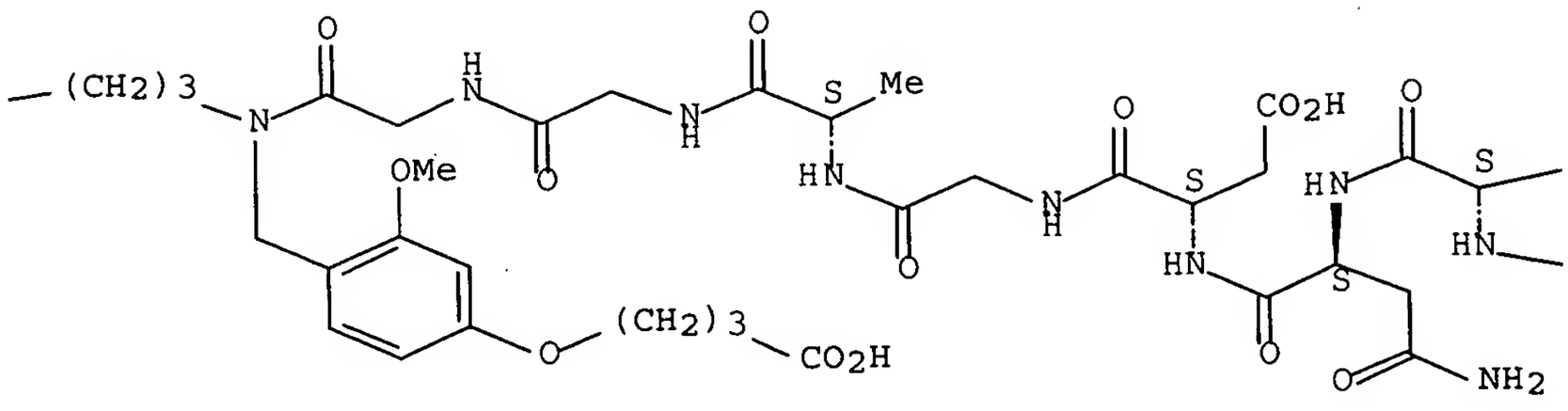

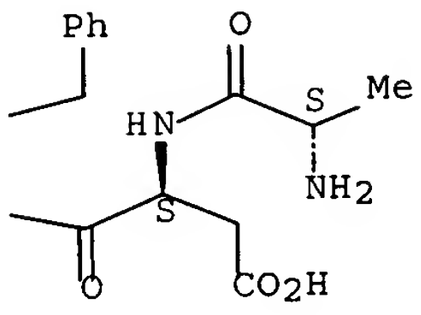

RN 921939-73-3 CAPLUS
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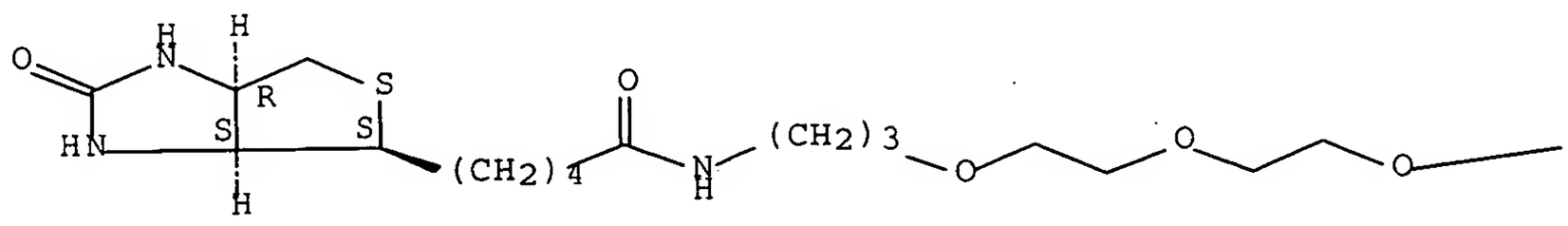
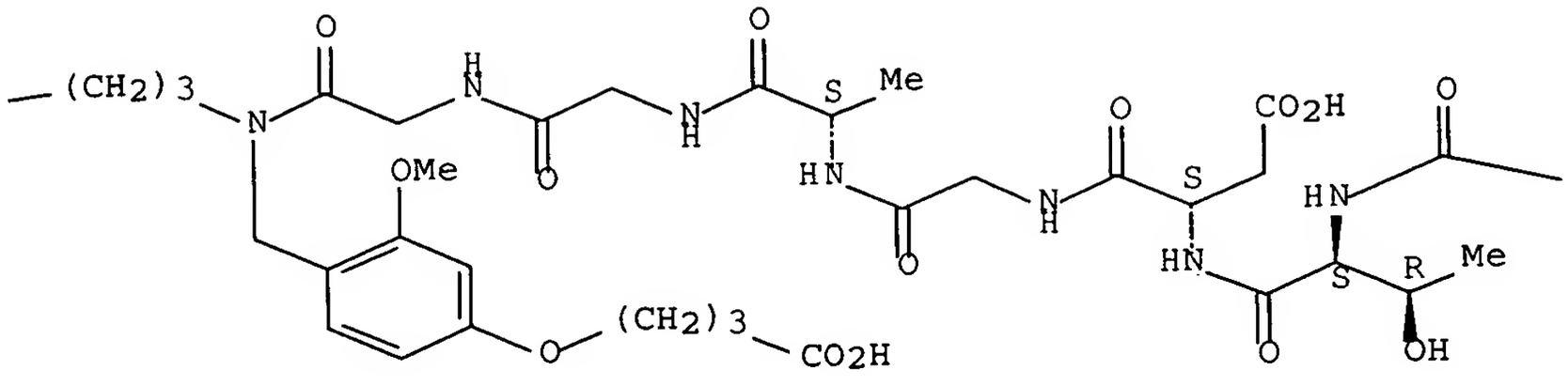
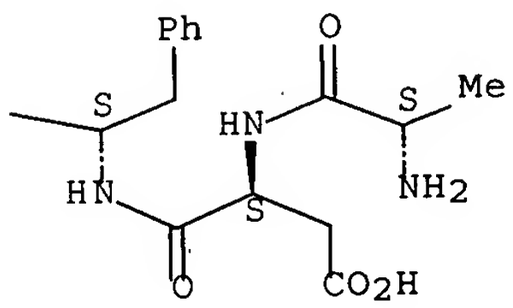
Absolute stereochemistry.







RN 921939-74-4 CAPLUS
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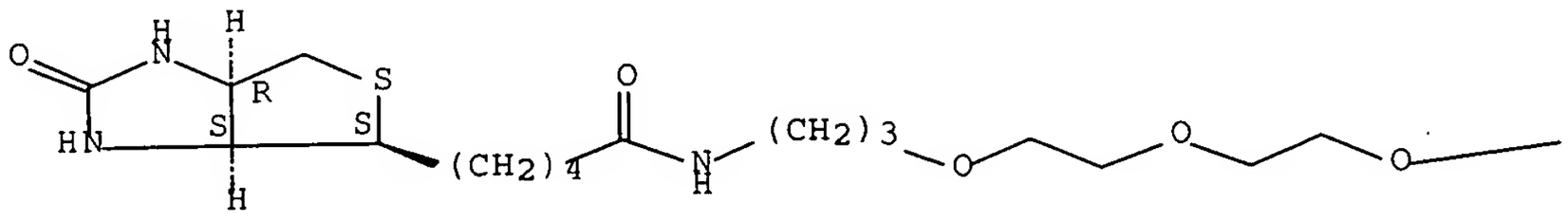
Absolute stereochemistry.



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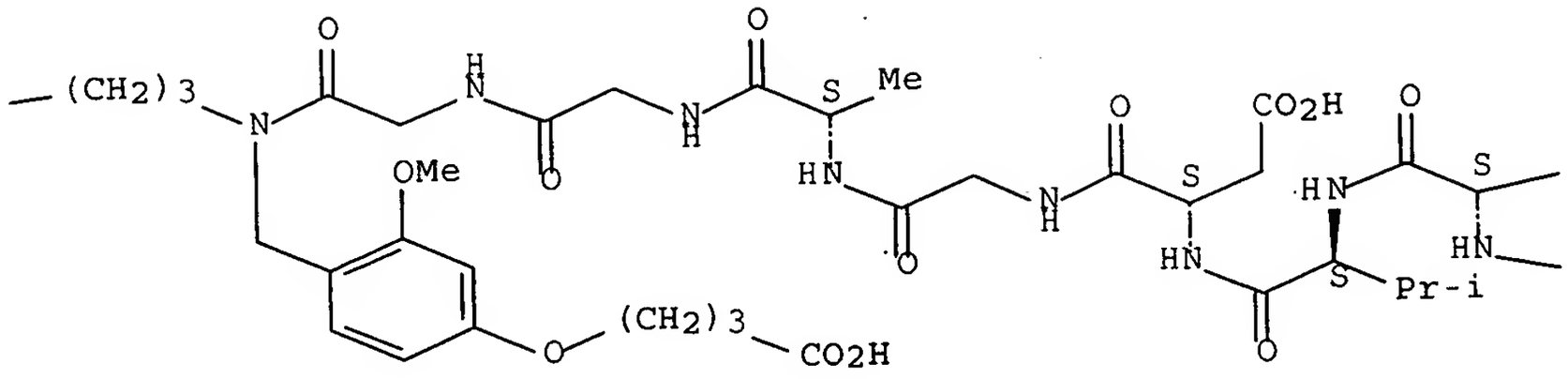

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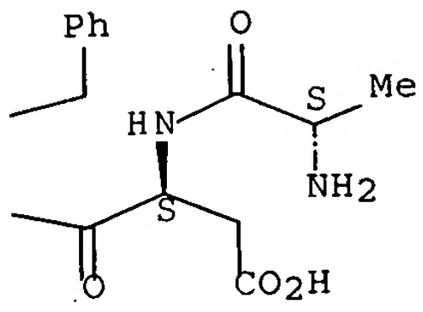

RN 921939-75-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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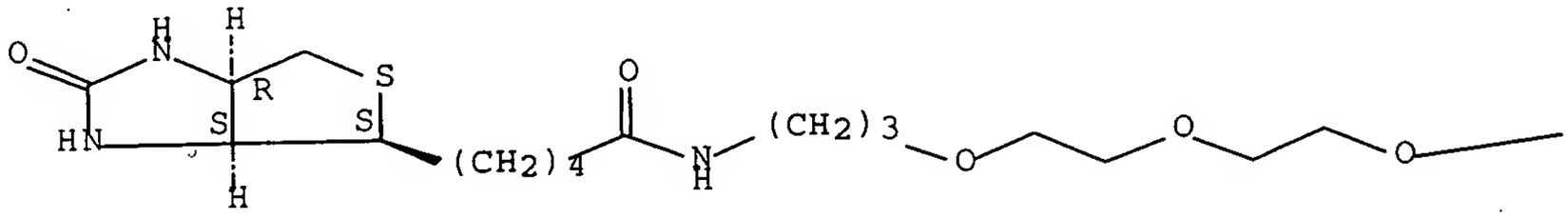

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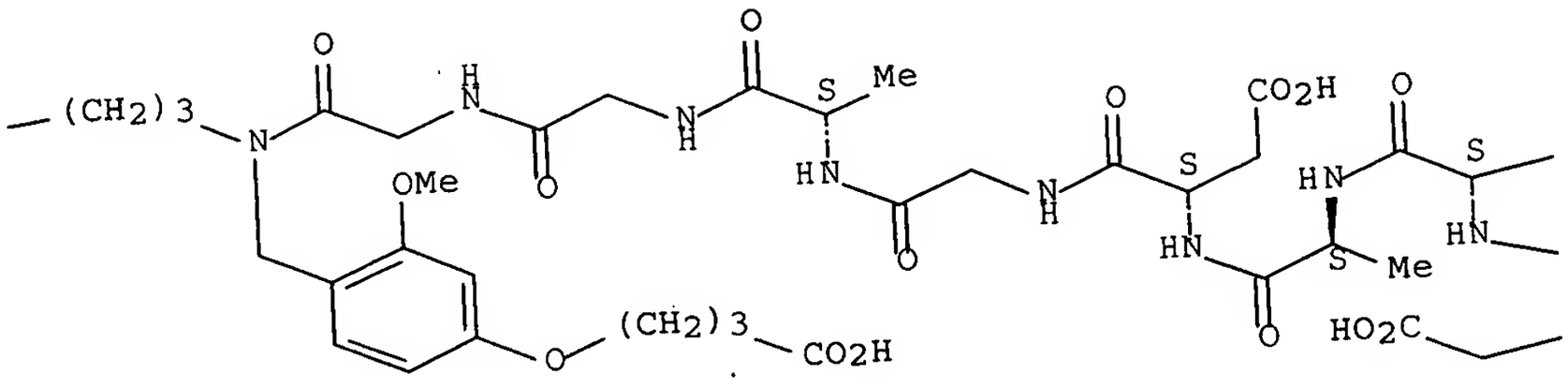

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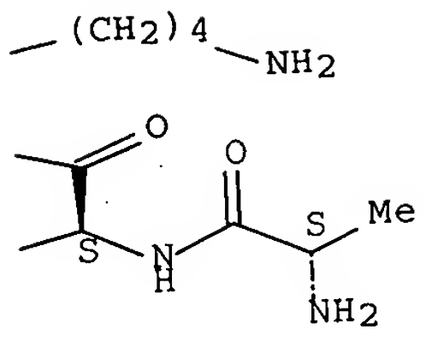

RN 921939-76-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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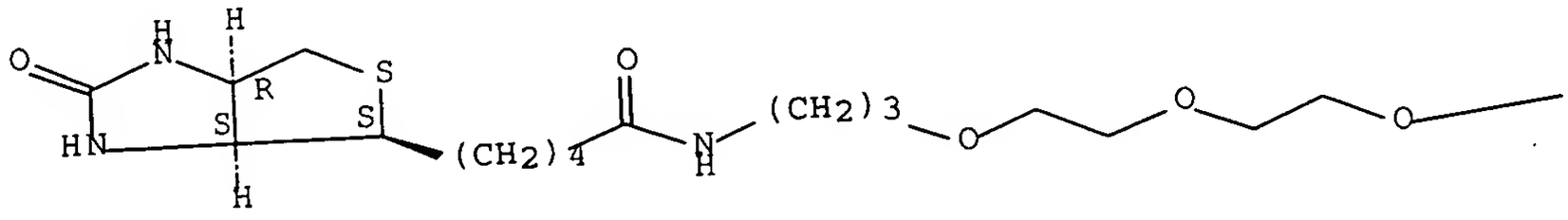

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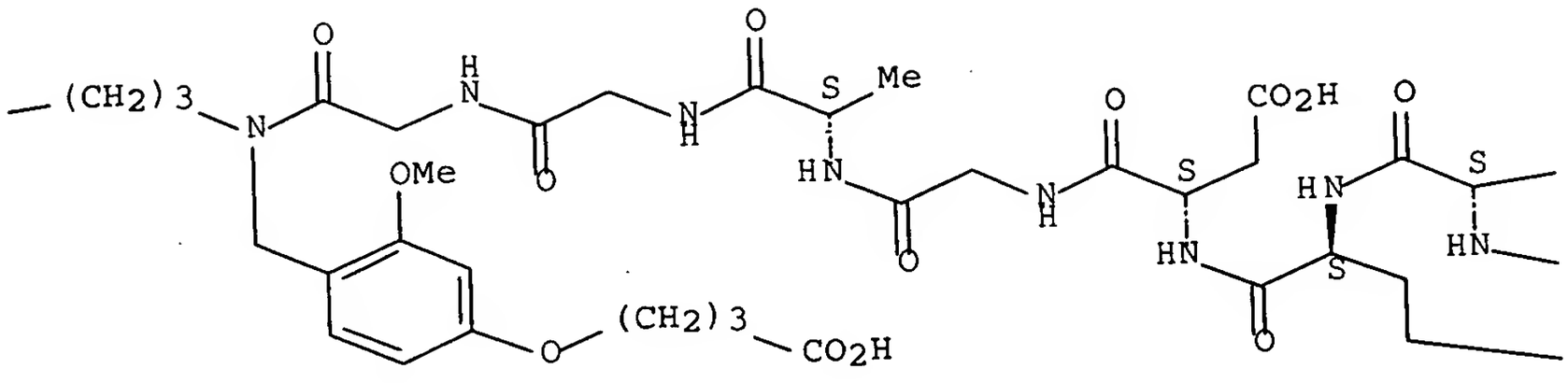

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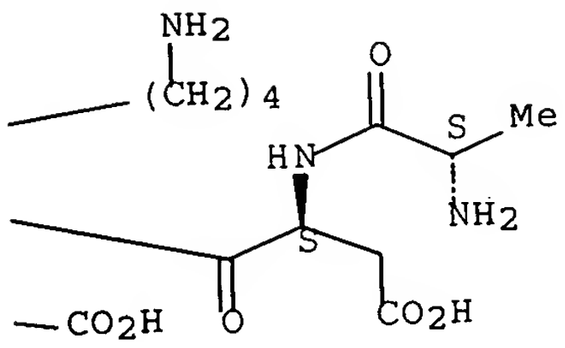

RN 921939-77-7 CAPLUS,
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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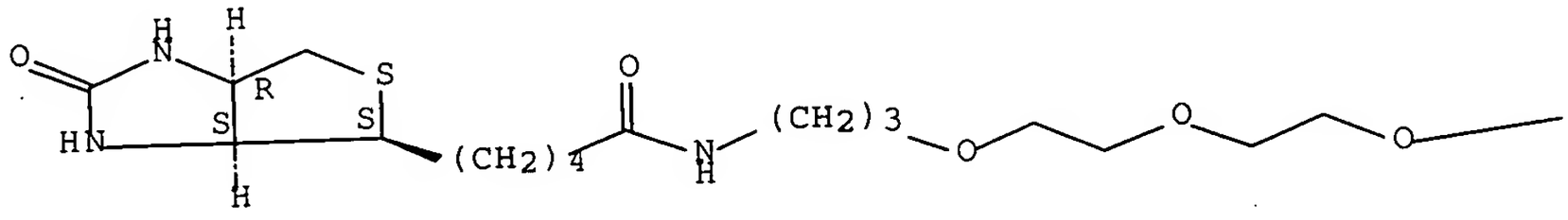

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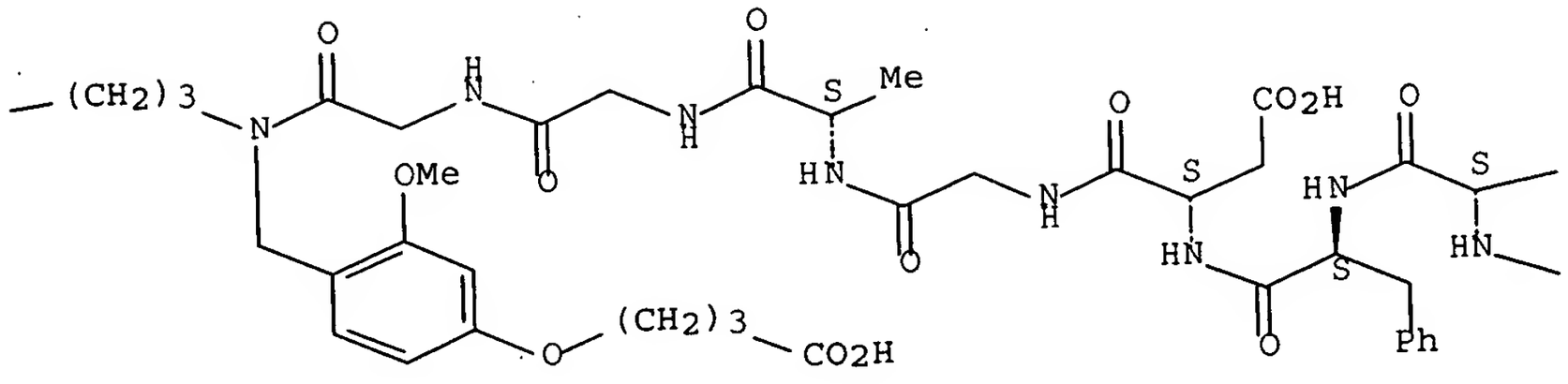

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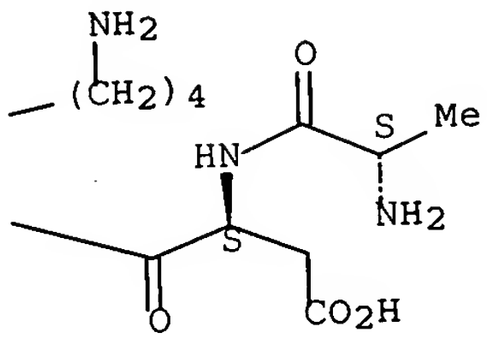

RN 921939-78-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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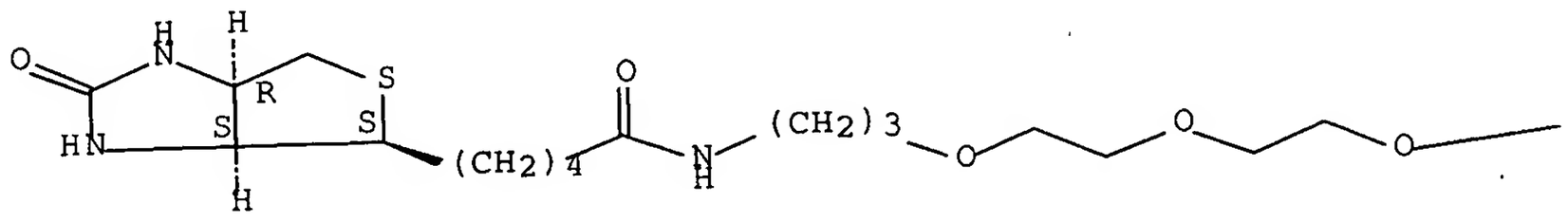

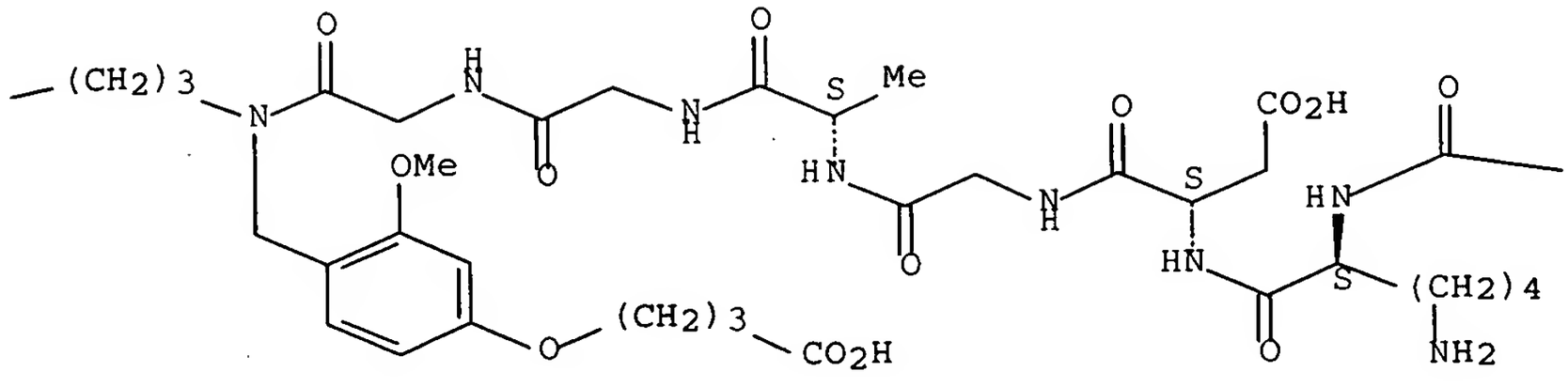

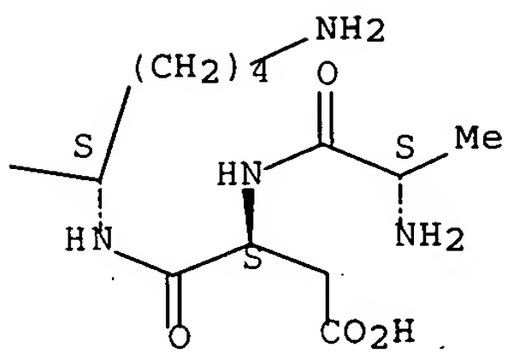

RN 921939-79-9 CAPLUS
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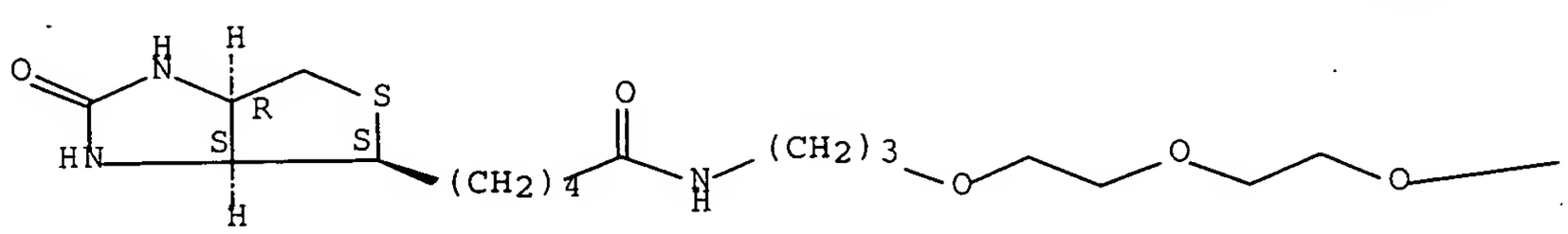
Absolute stereochemistry.



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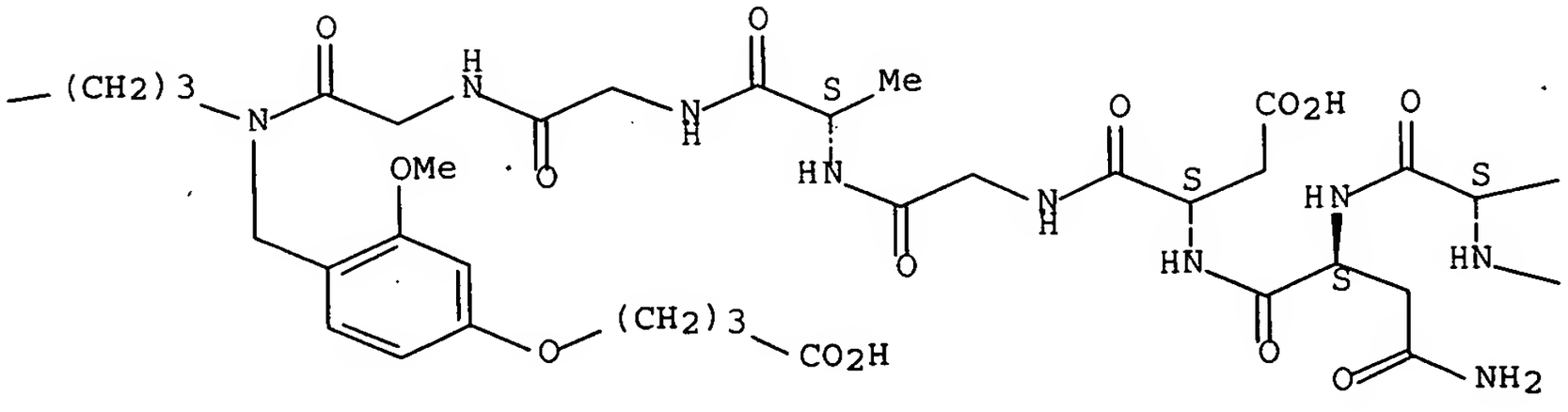

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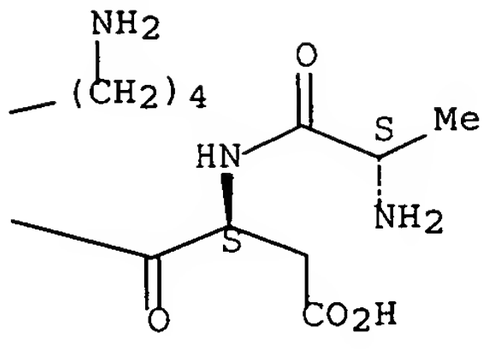

RN 921939-80-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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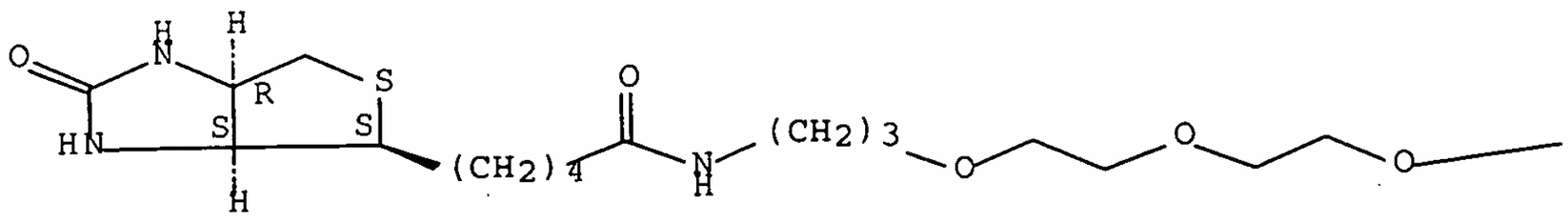

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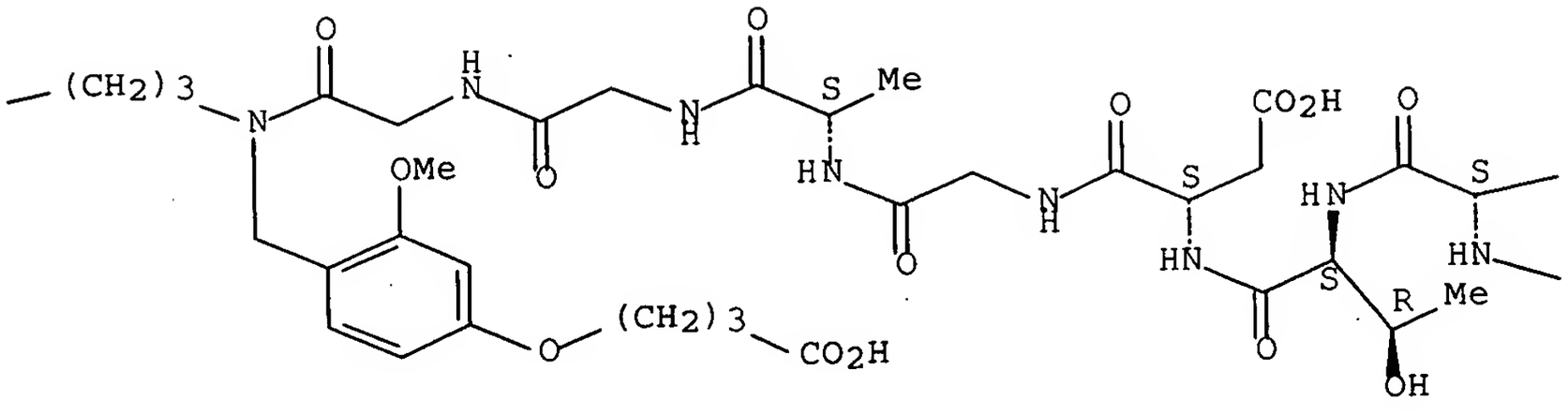

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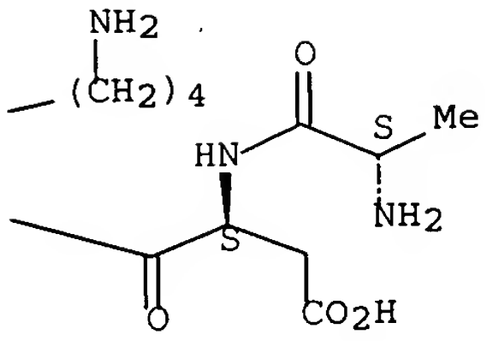

RN 921939-81-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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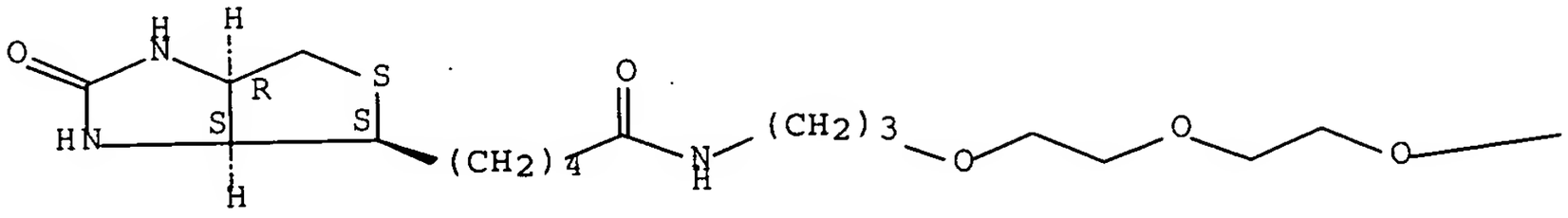

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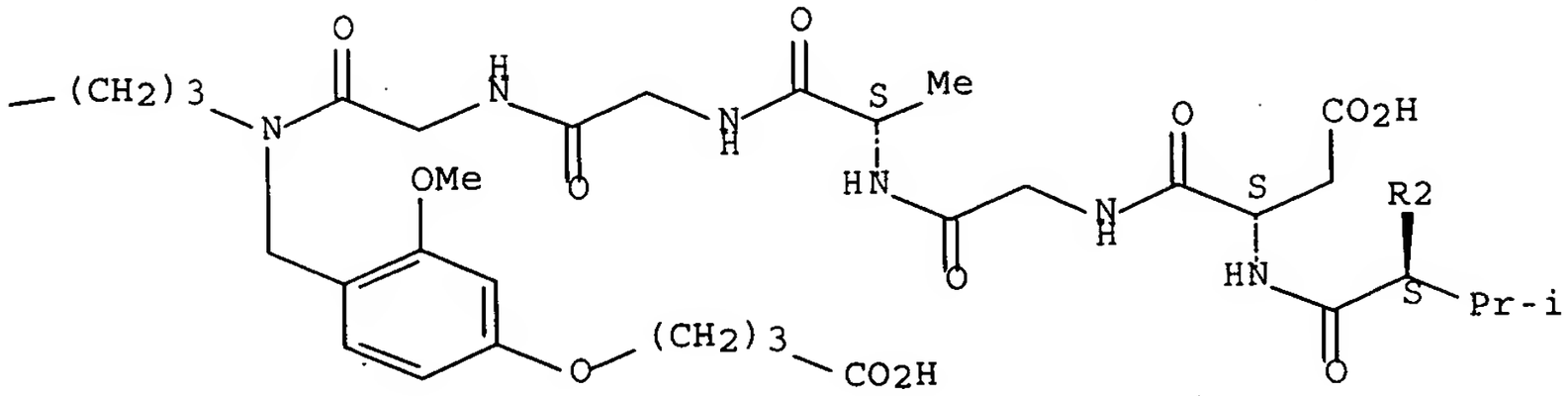

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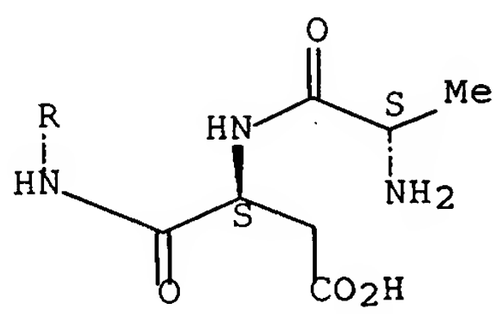

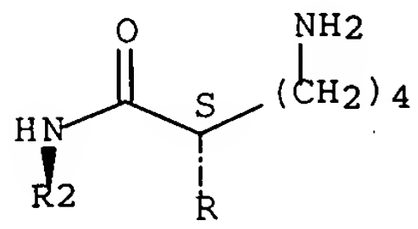

RN 921939-82-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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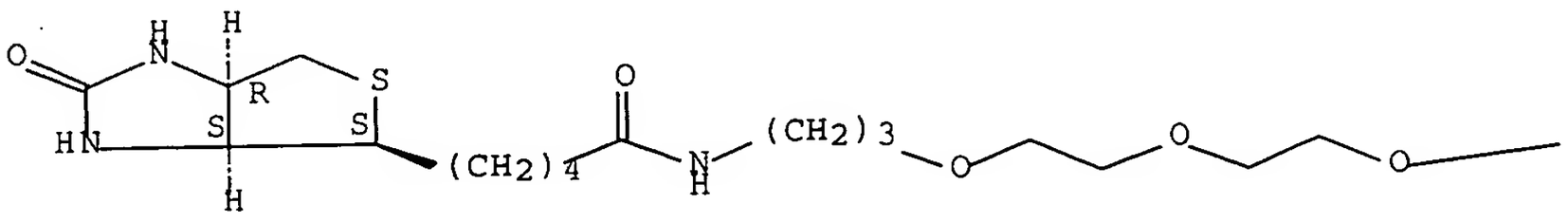
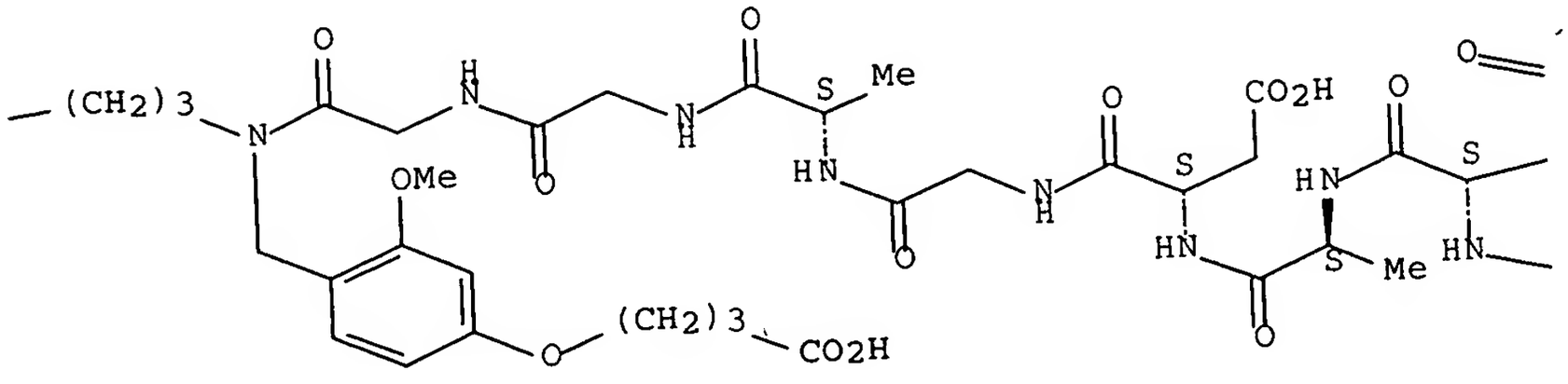
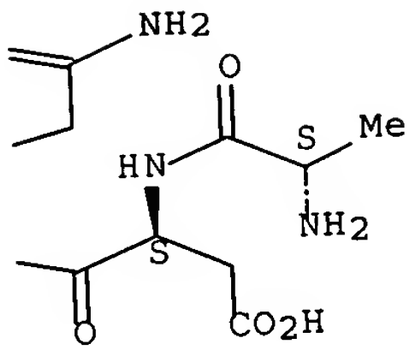
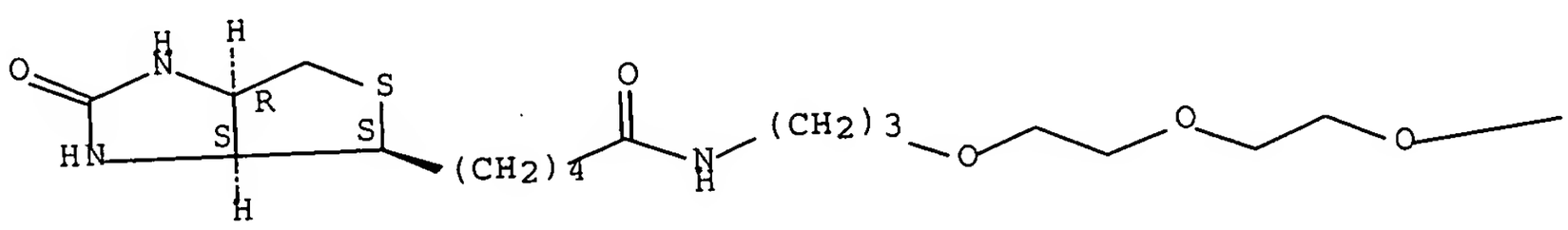






RN 921939-83-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.



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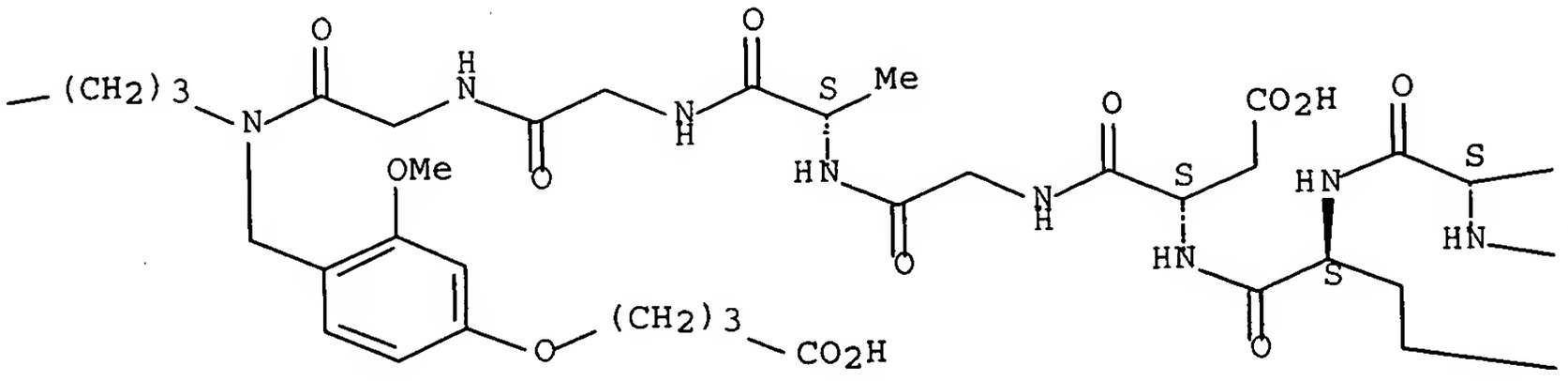

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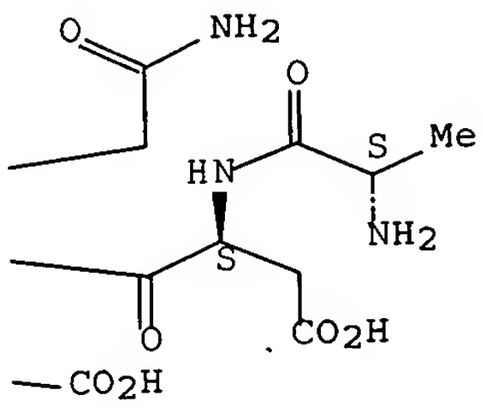

RN 921939-84-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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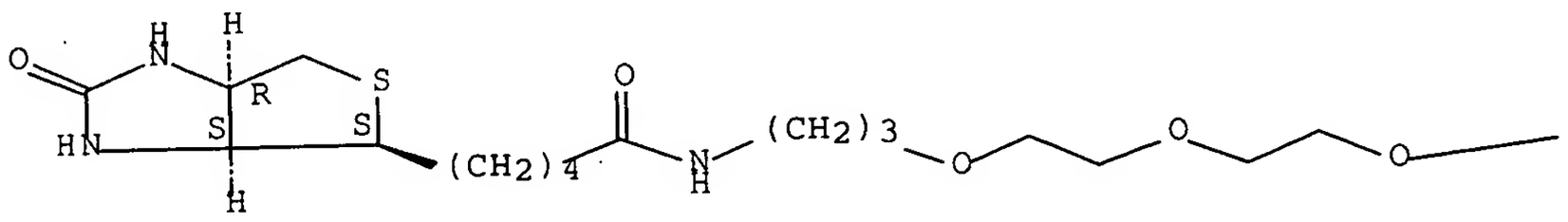
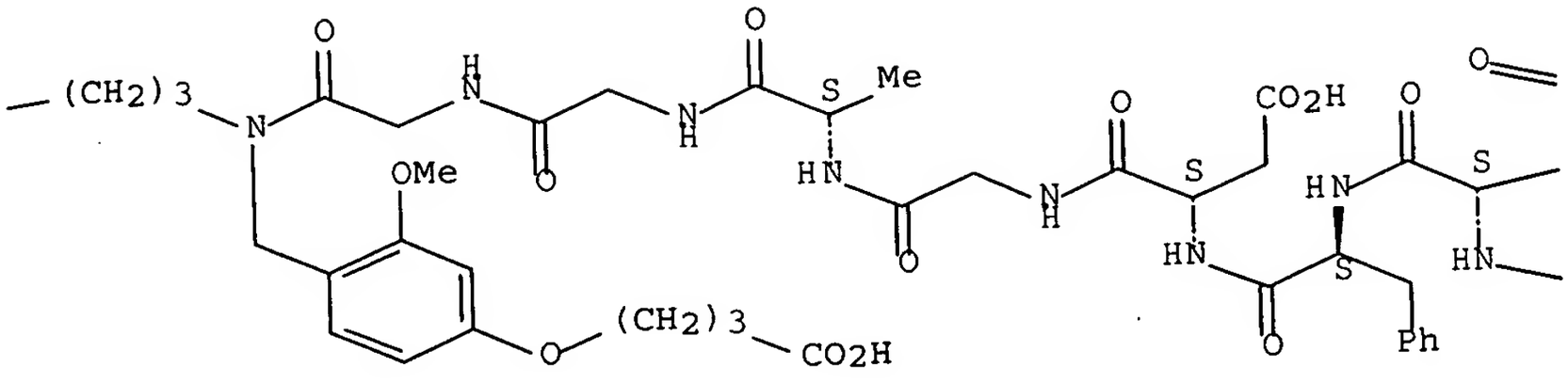
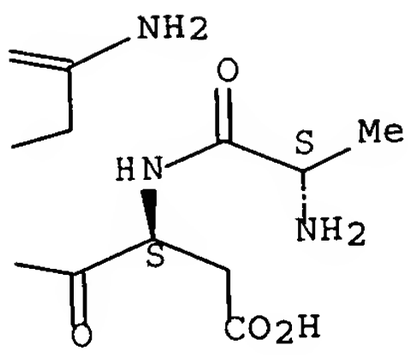
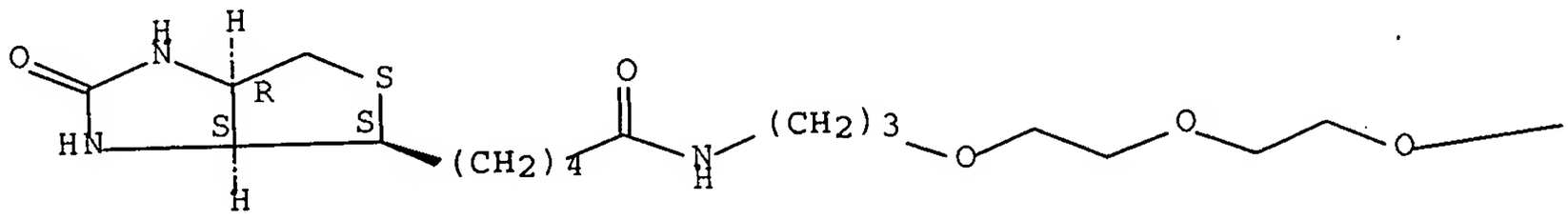


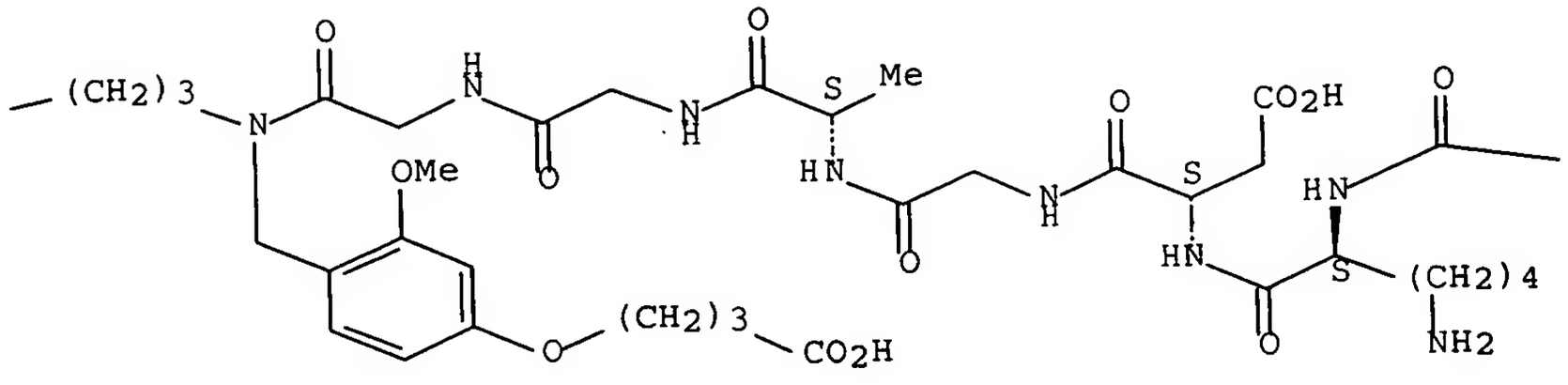


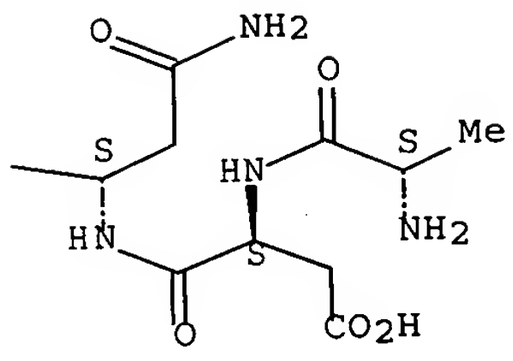


RN 921939-85-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

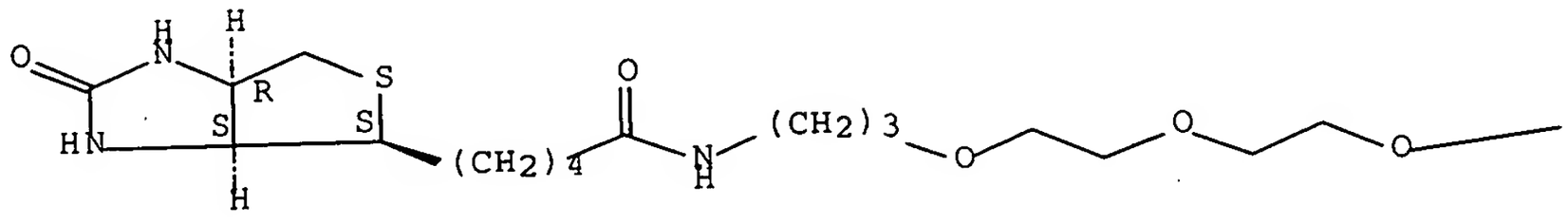






RN 921939-86-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.



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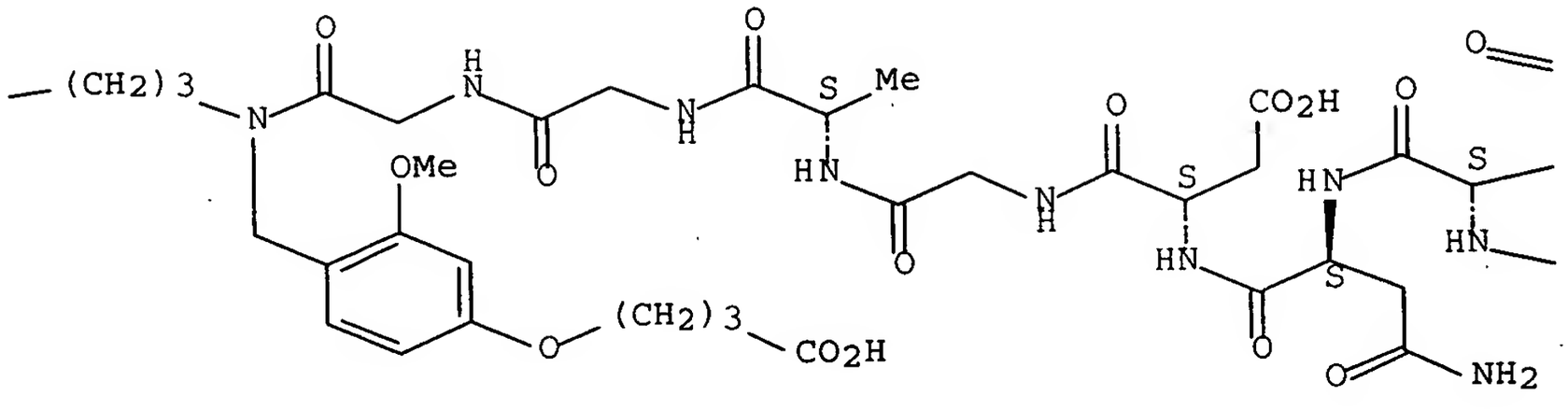

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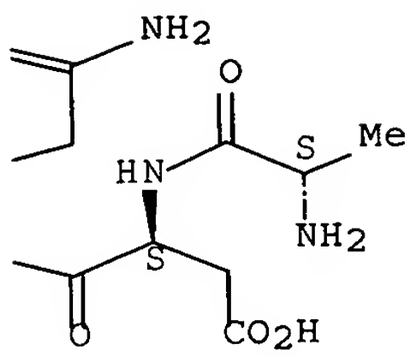

RN 921939-87-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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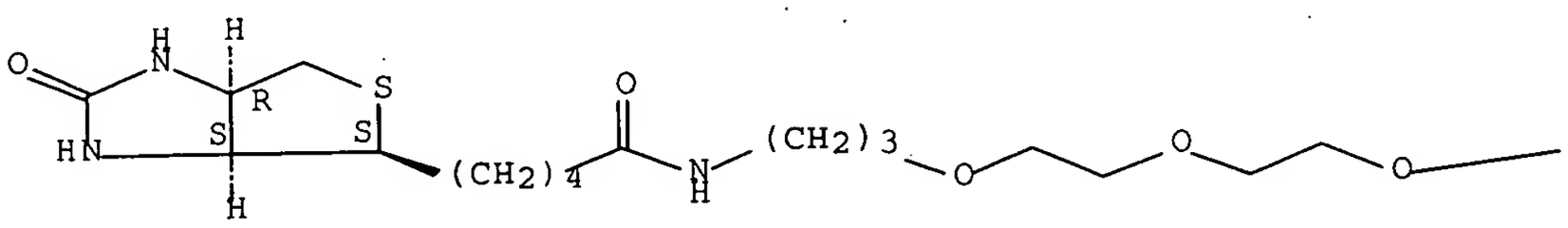
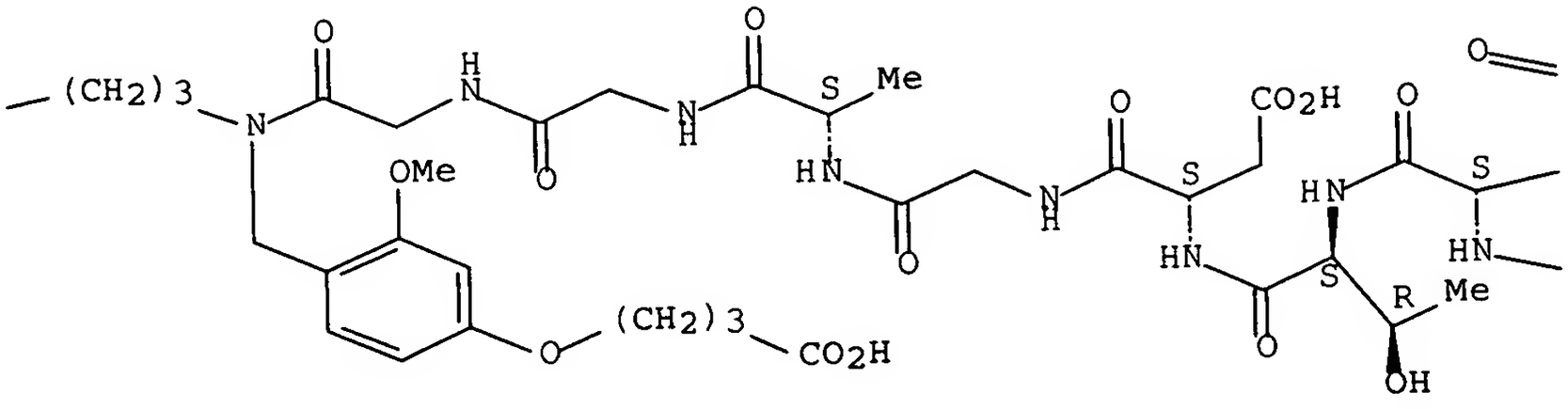
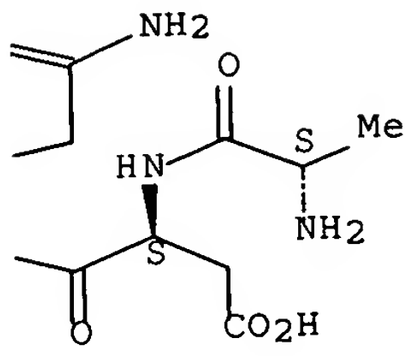
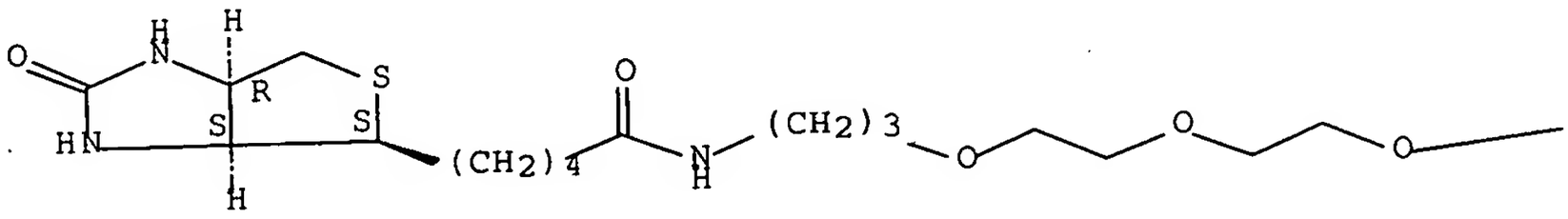


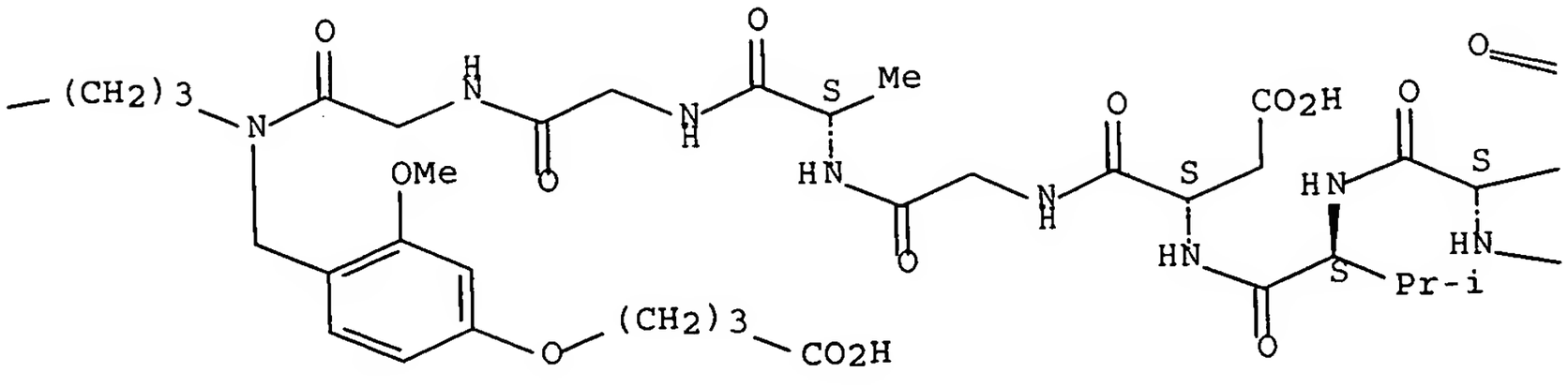


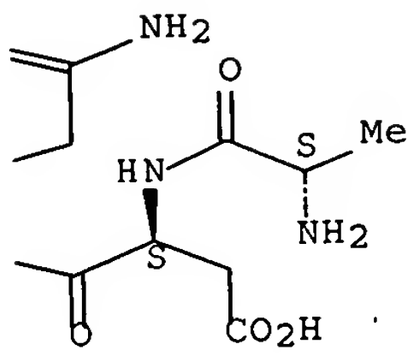


RN 921939-88-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

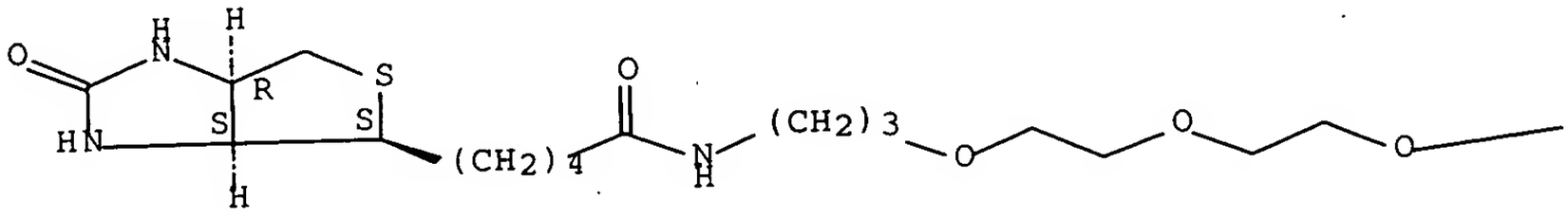






RN 921939-89-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.



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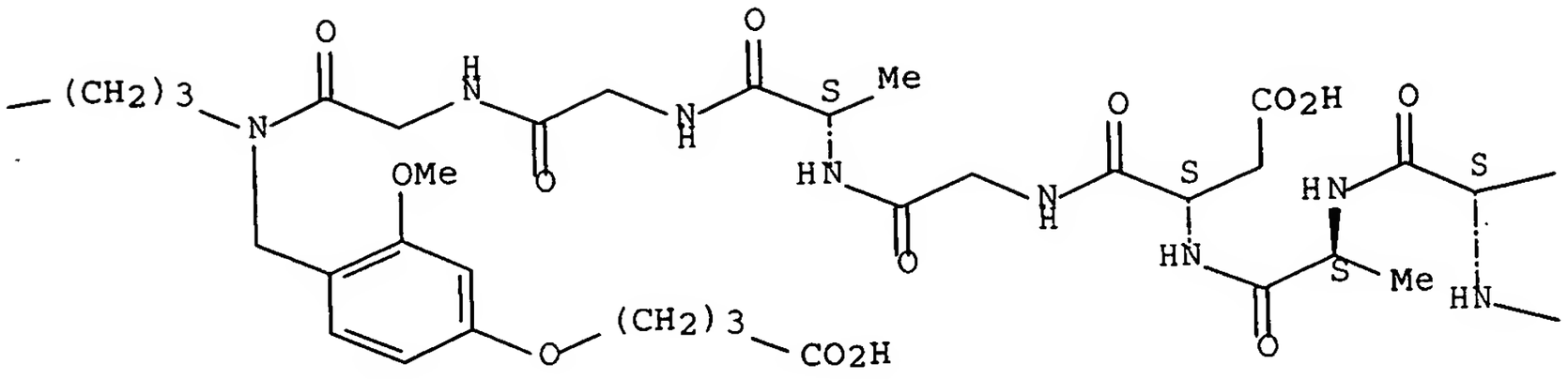

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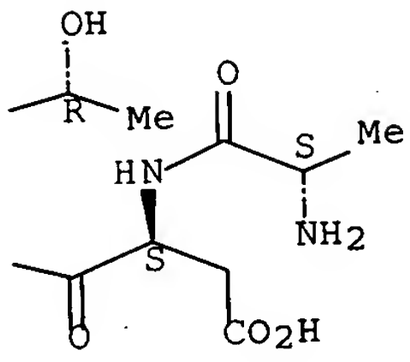

RN 921939-90-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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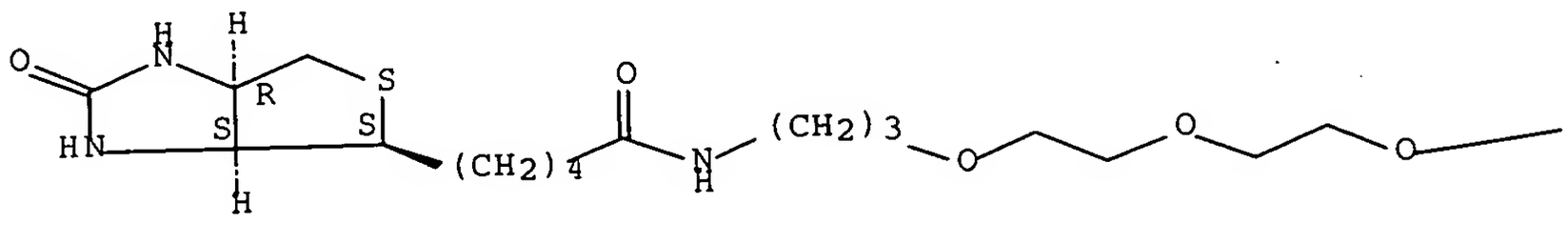

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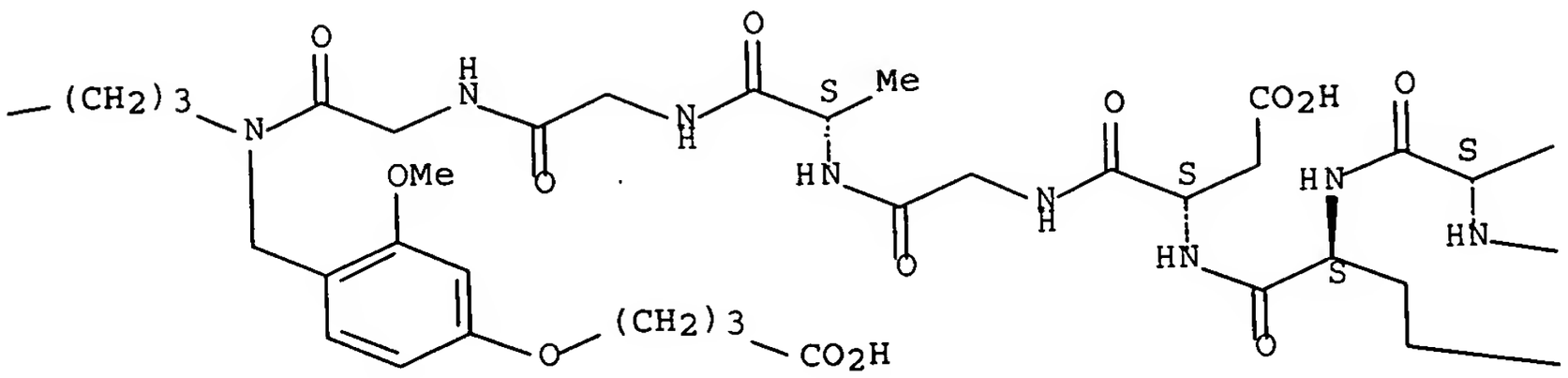

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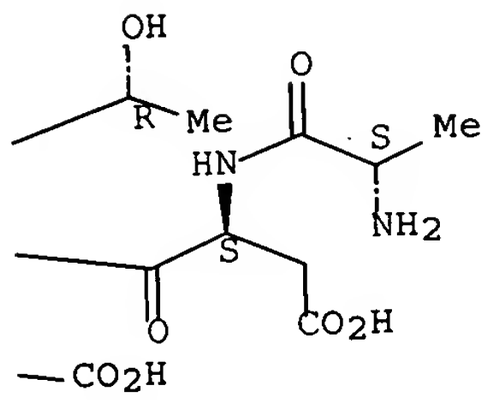

RN 921939-91-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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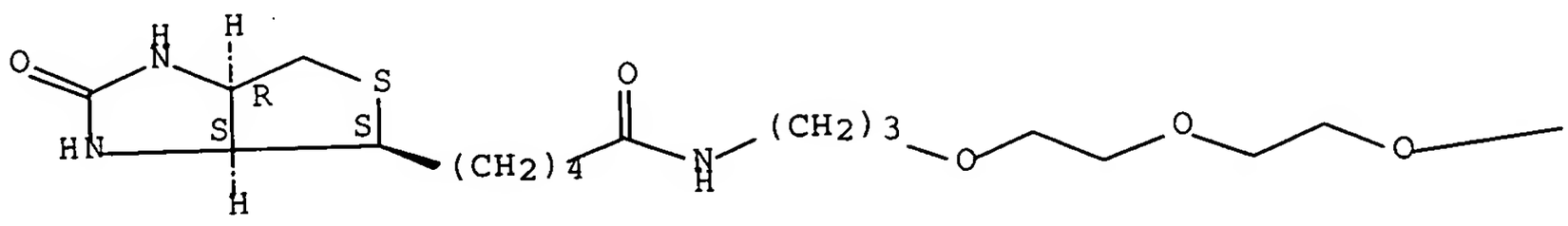

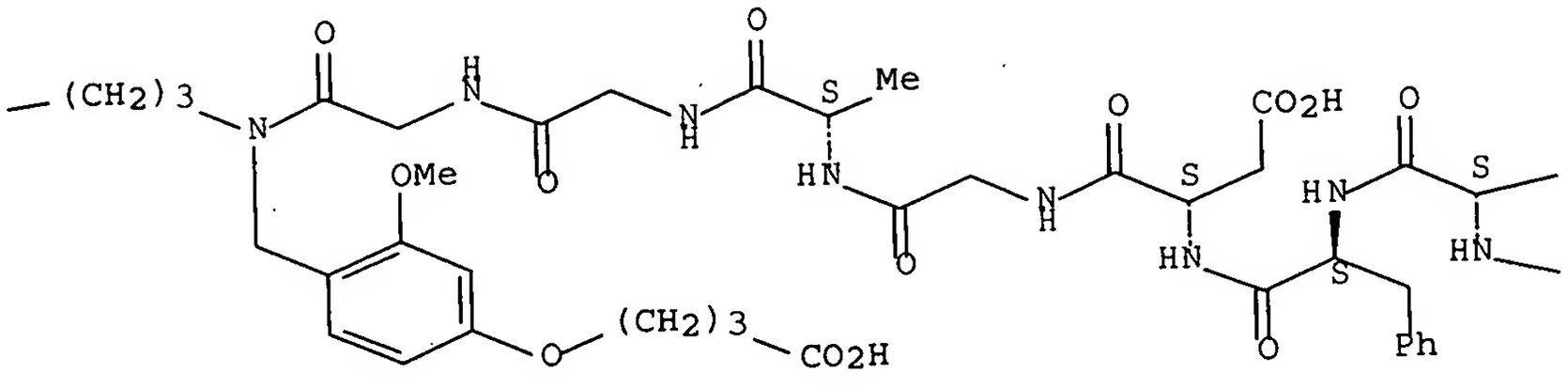

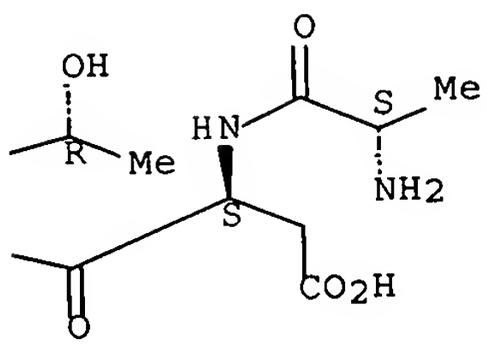

RN 921939-92-6 CAPLUS
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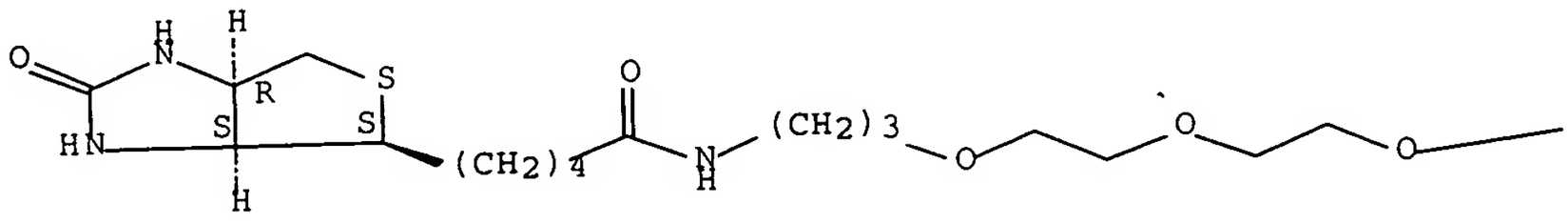
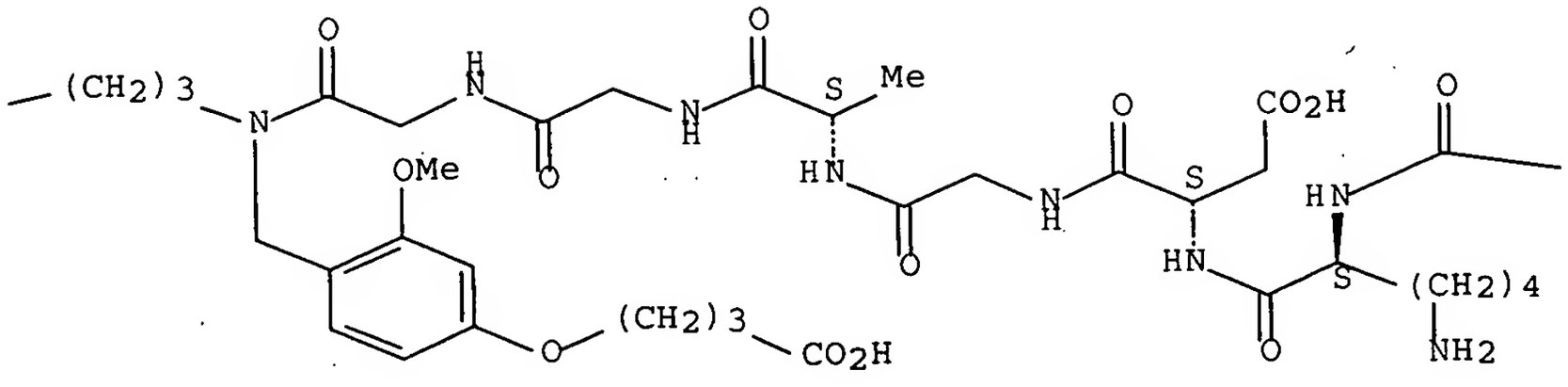
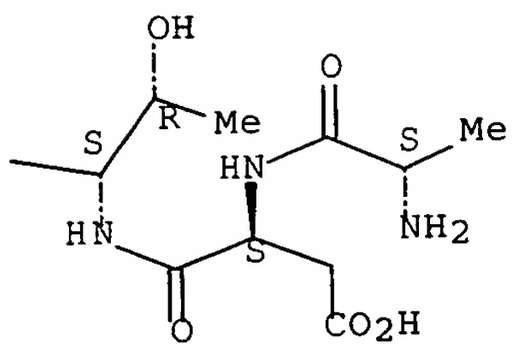
Absolute stereochemistry.

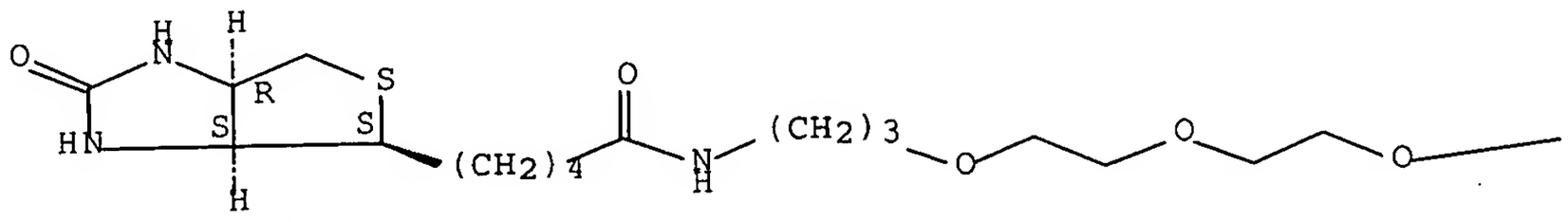


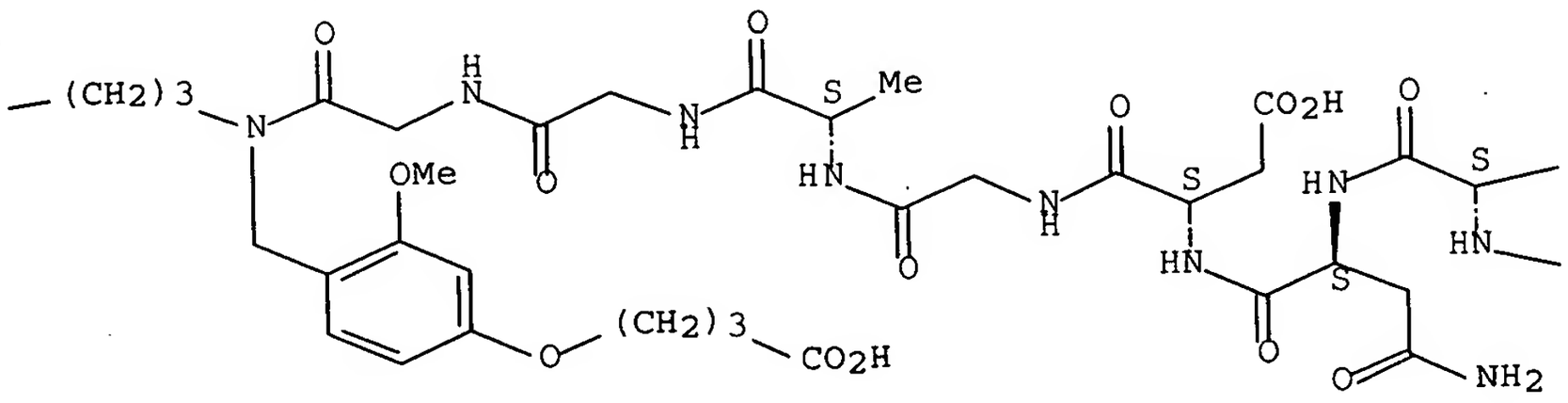


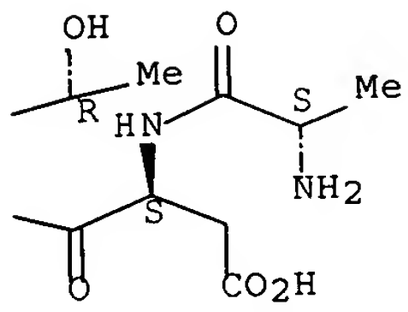


RN 921939-93-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.







RN 921939-94-8 CAPLUS
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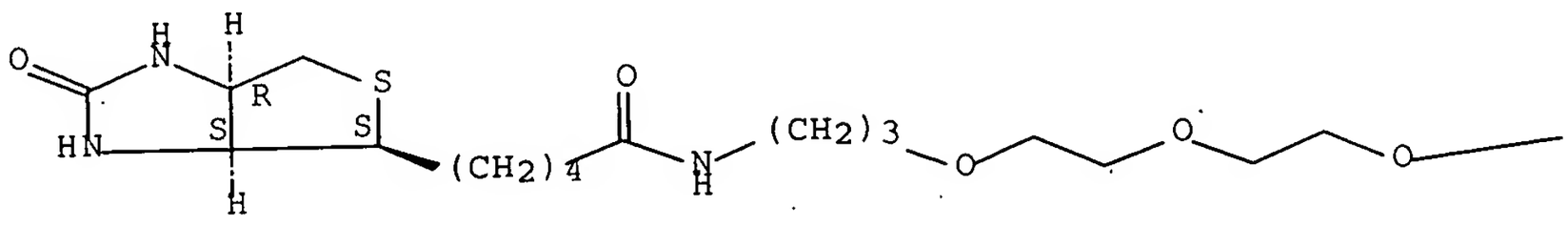
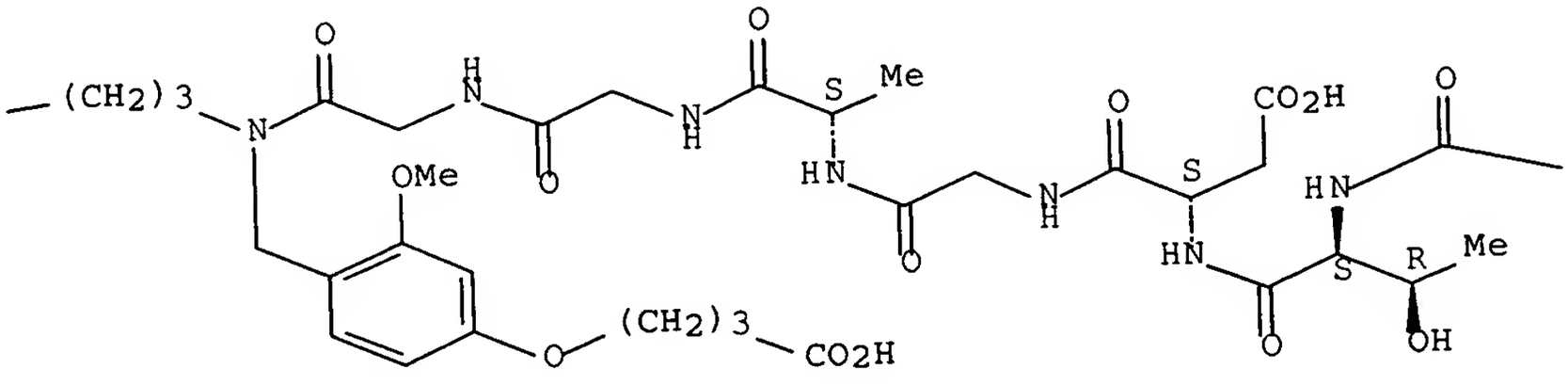
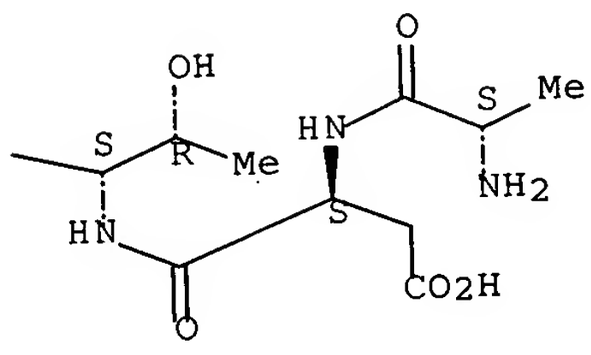
Absolute stereochemistry.

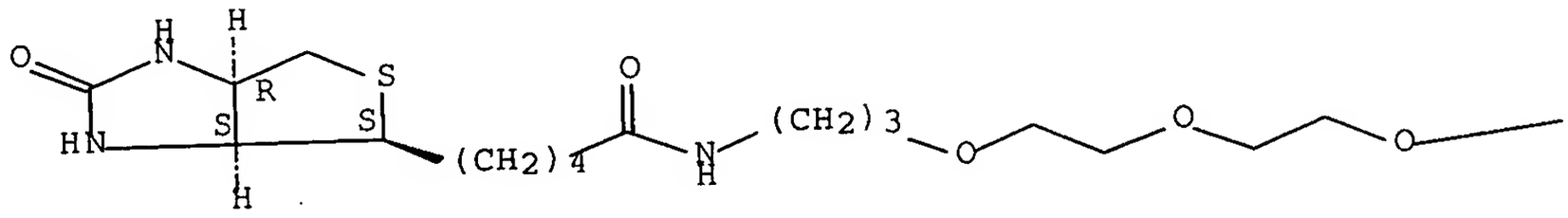


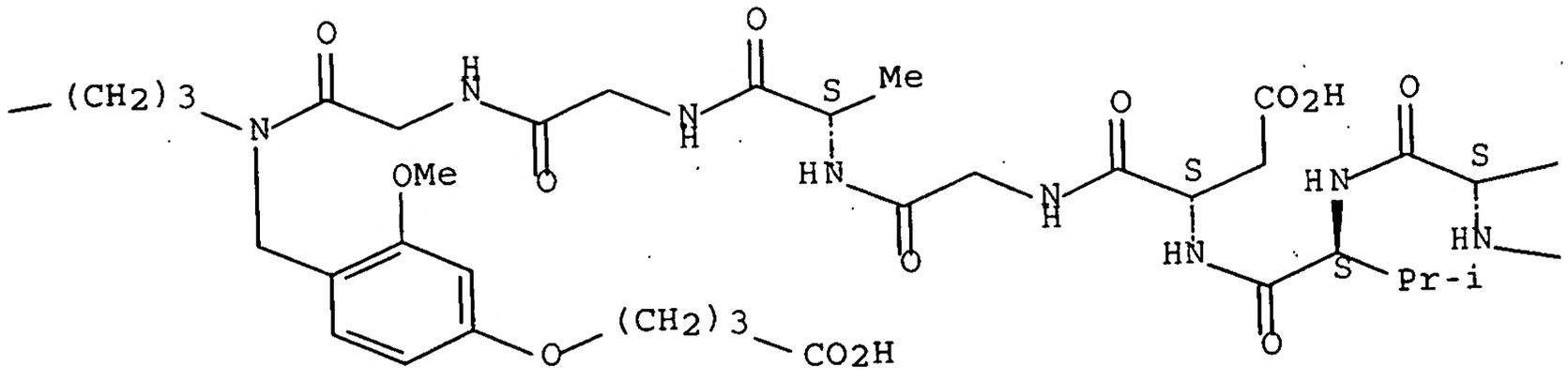


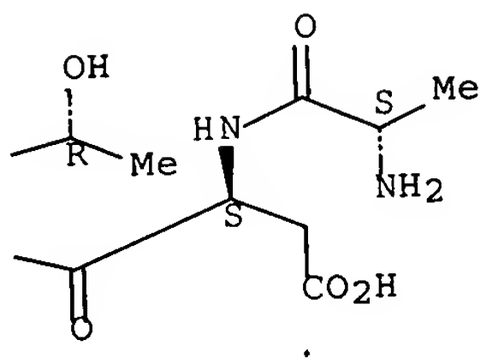


RN 921939-95-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.







RN 921939-96-0 CAPLUS
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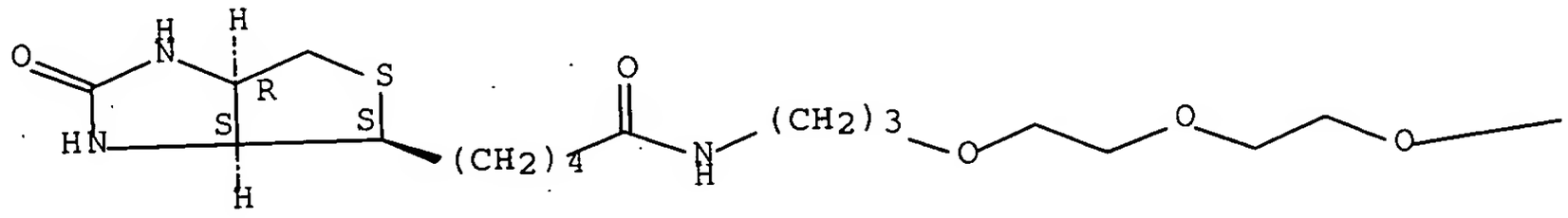

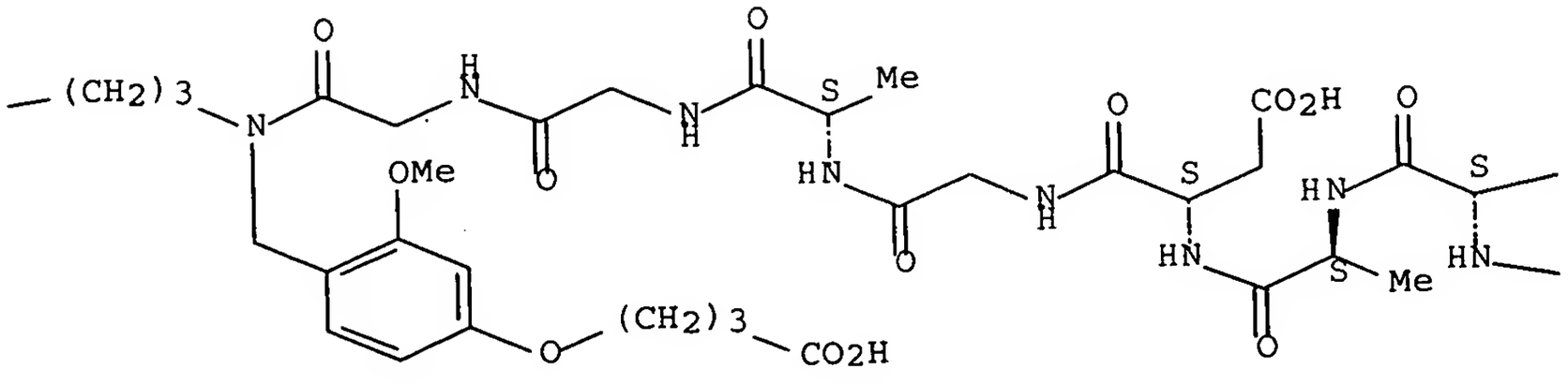

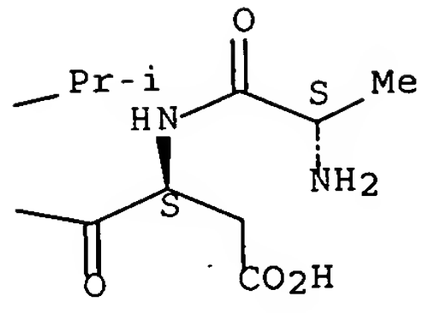

RN 921939-97-1 CAPLUS
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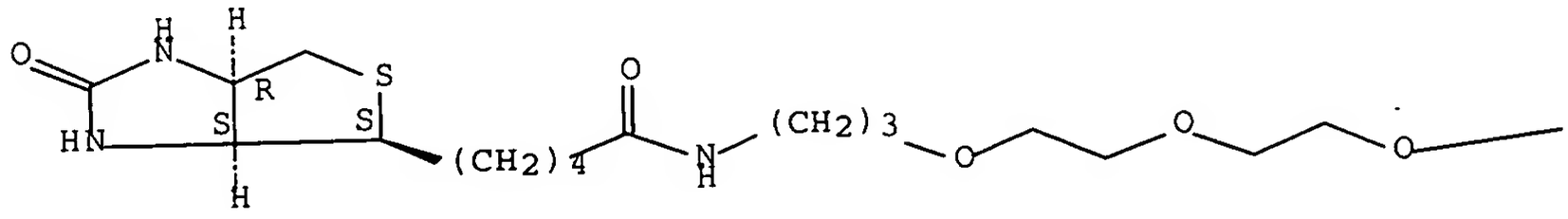
Absolute stereochemistry.



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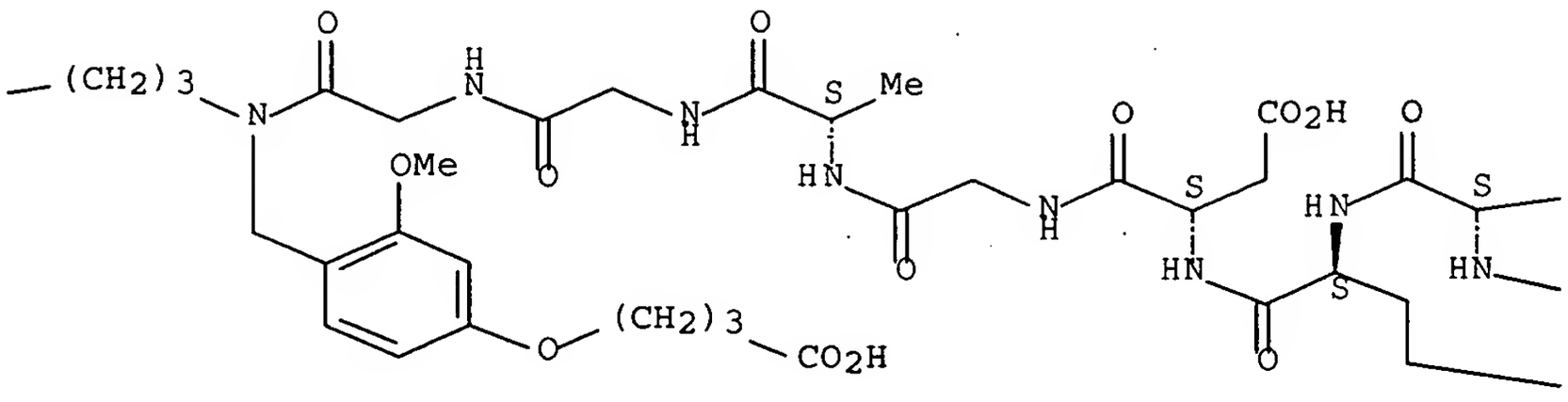

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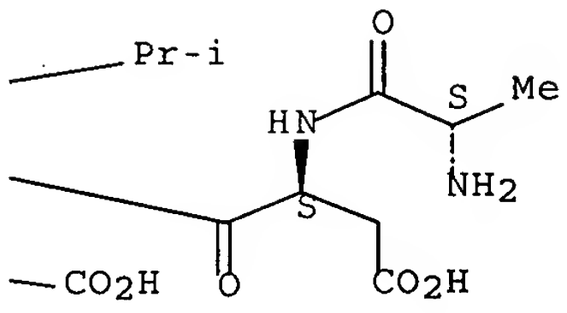

RN 921939-98-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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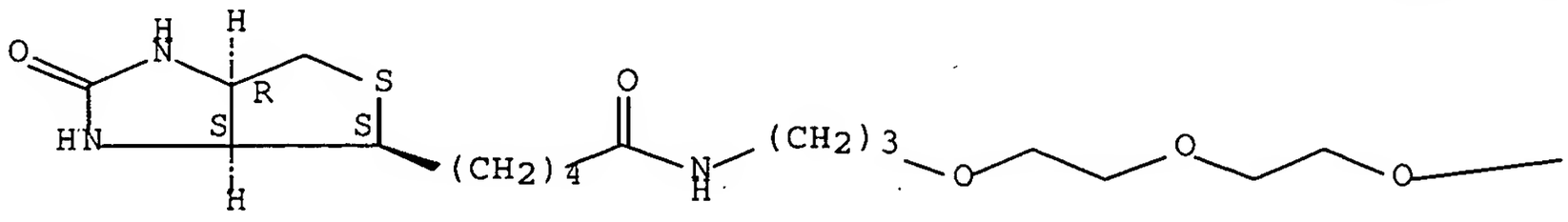
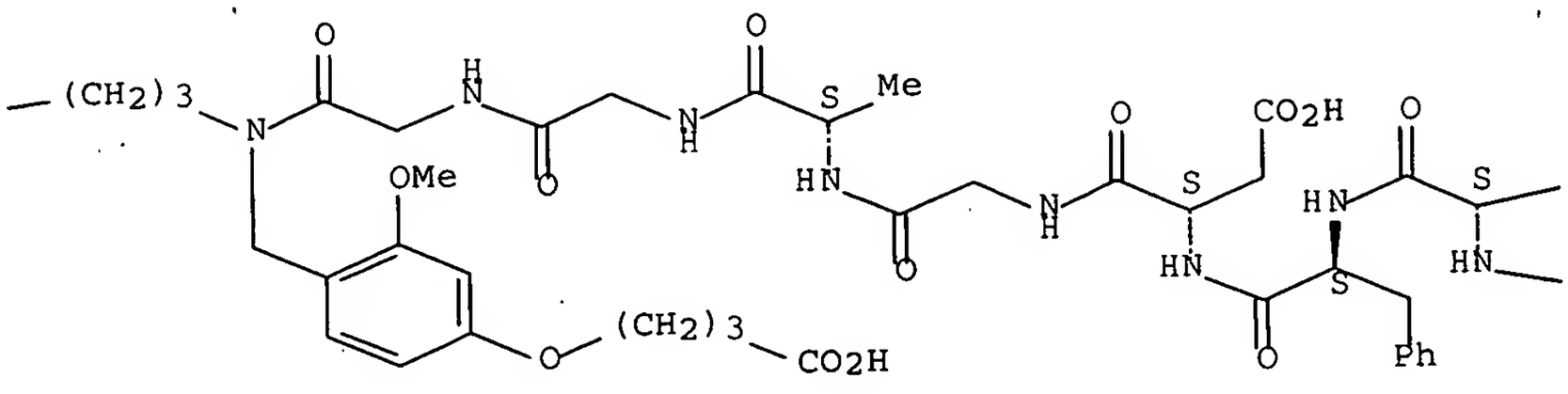
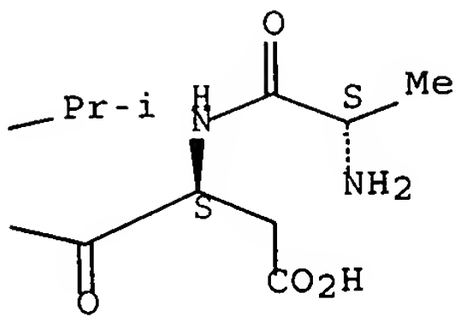
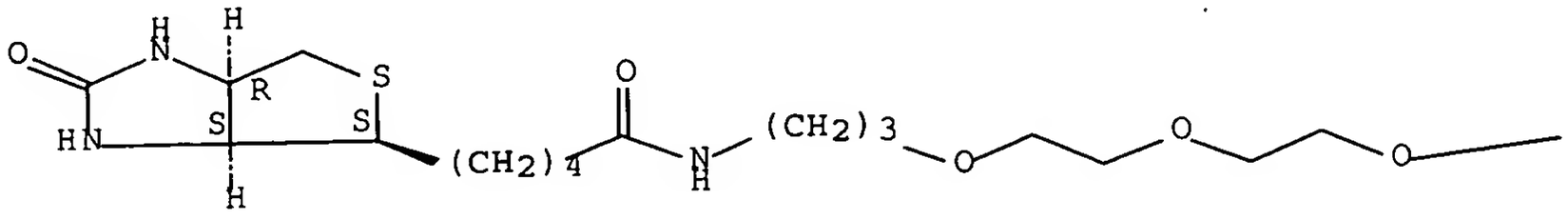






RN 921939-99-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.



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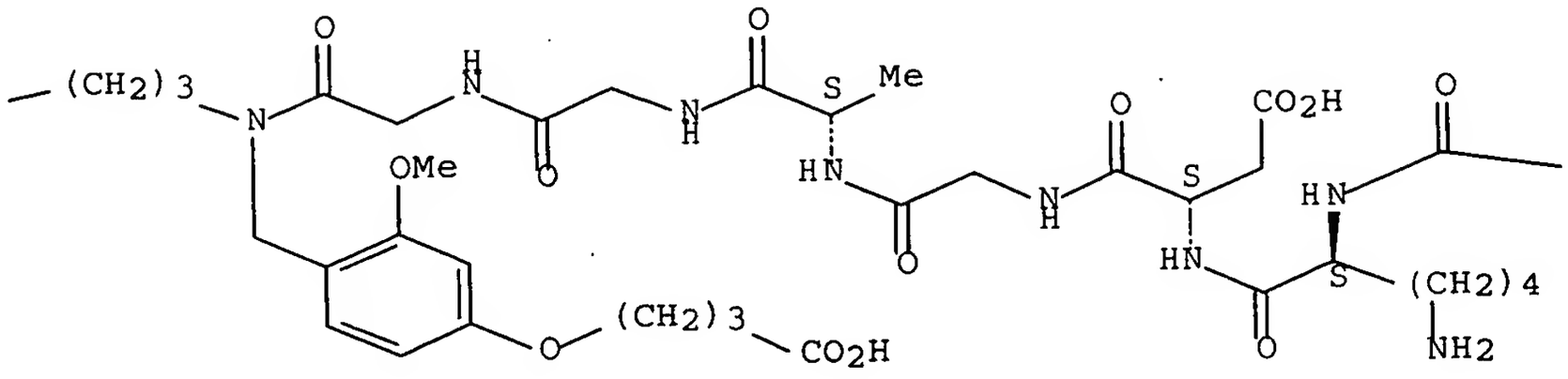

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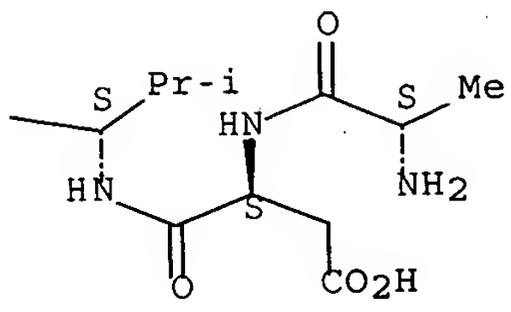

RN 921940-00-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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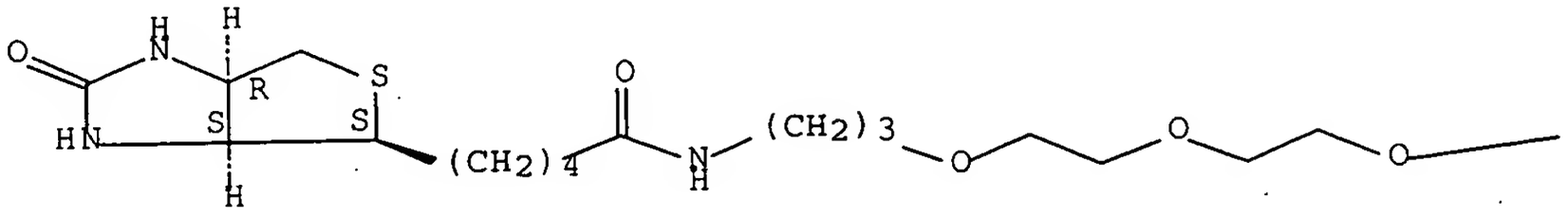

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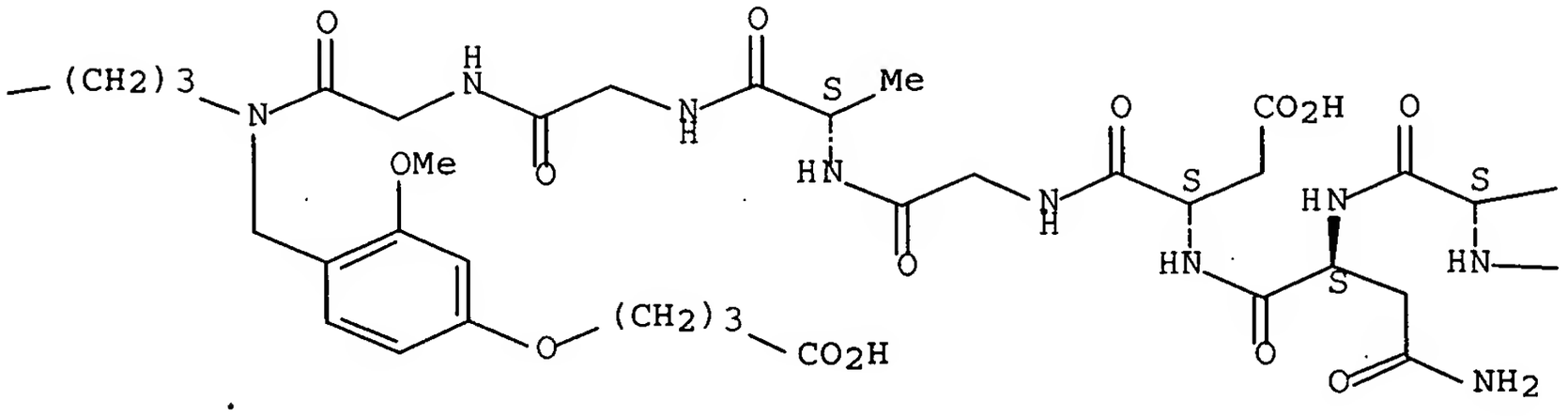

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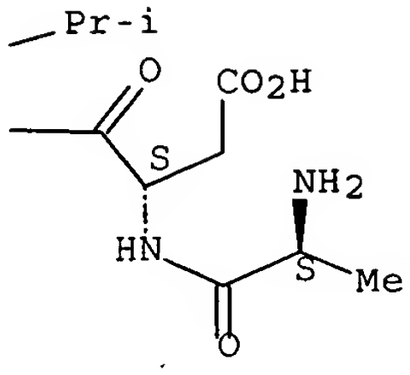

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Absolute stereochemistry.

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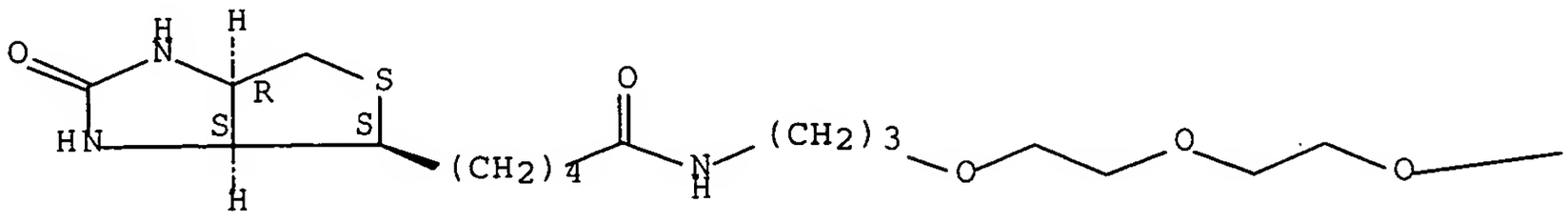

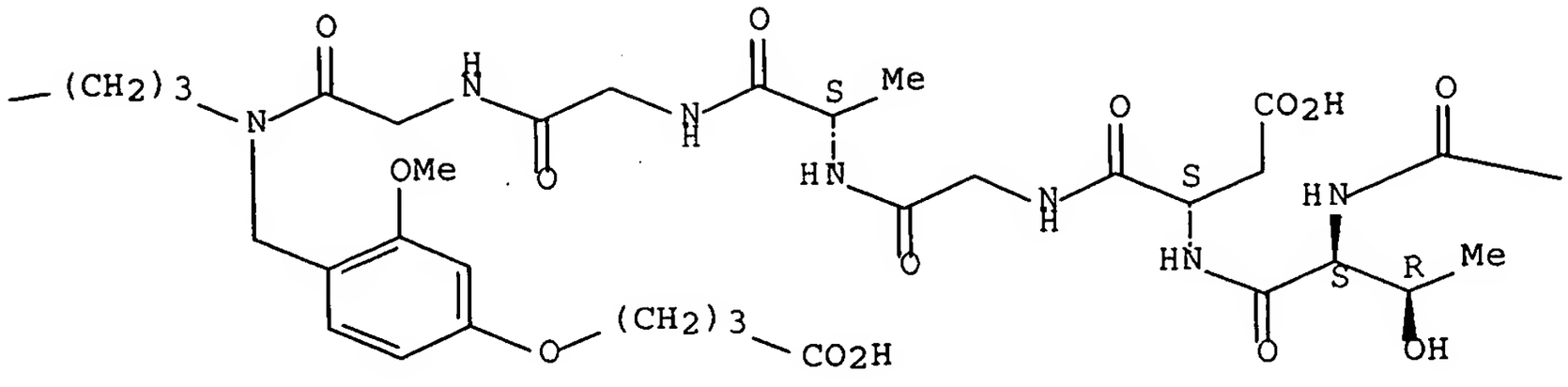

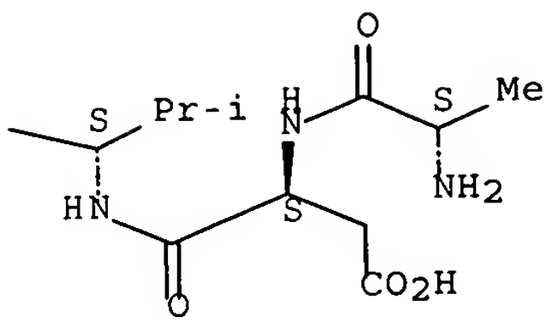

RN 921940-02-5 CAPLUS
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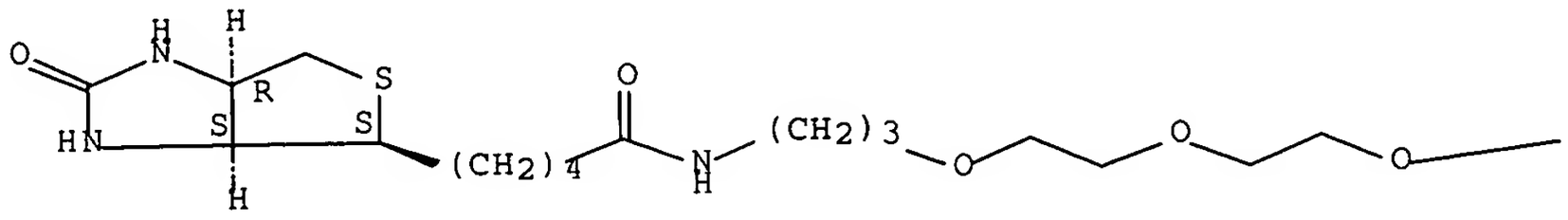

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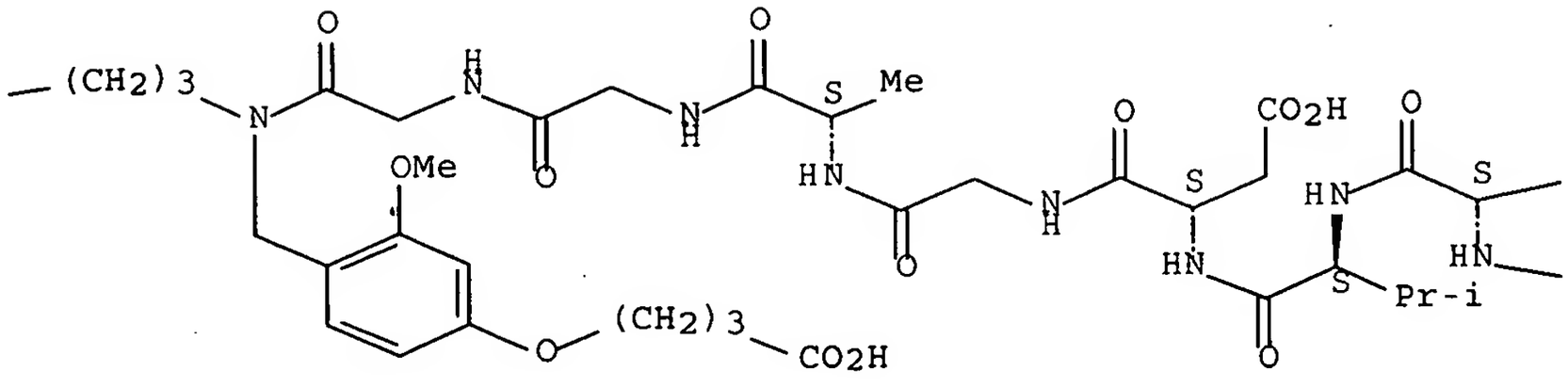

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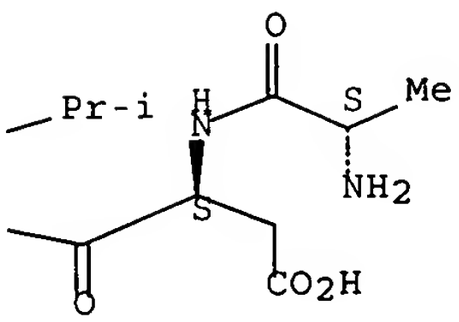

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Absolute stereochemistry.

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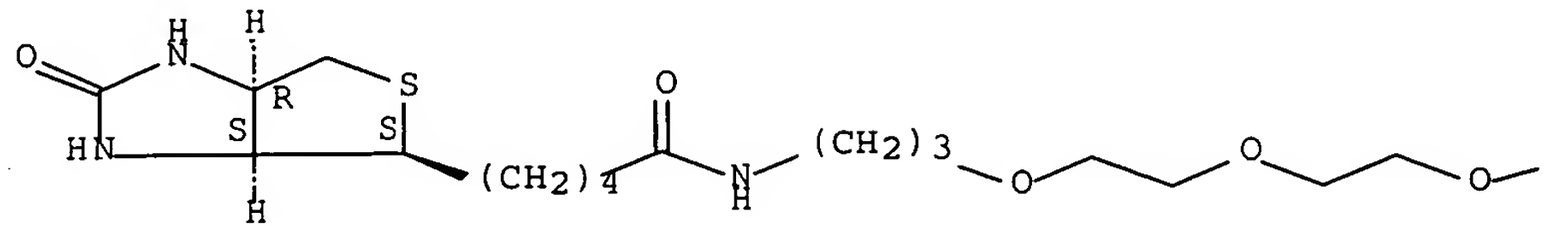

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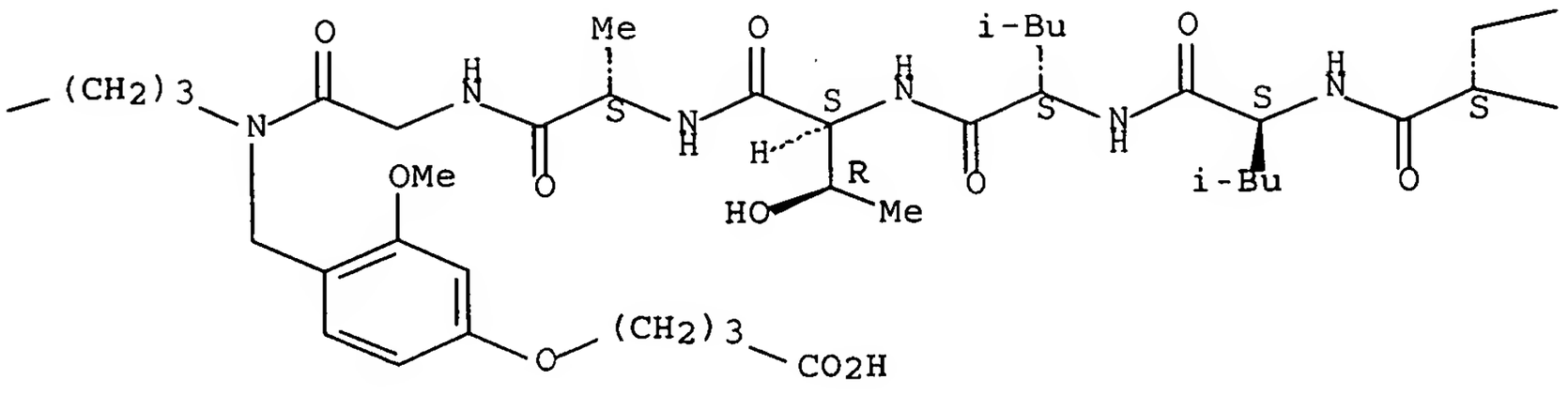

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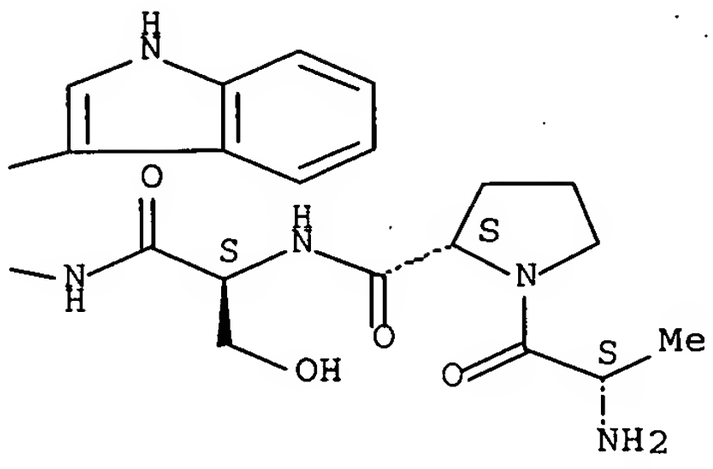

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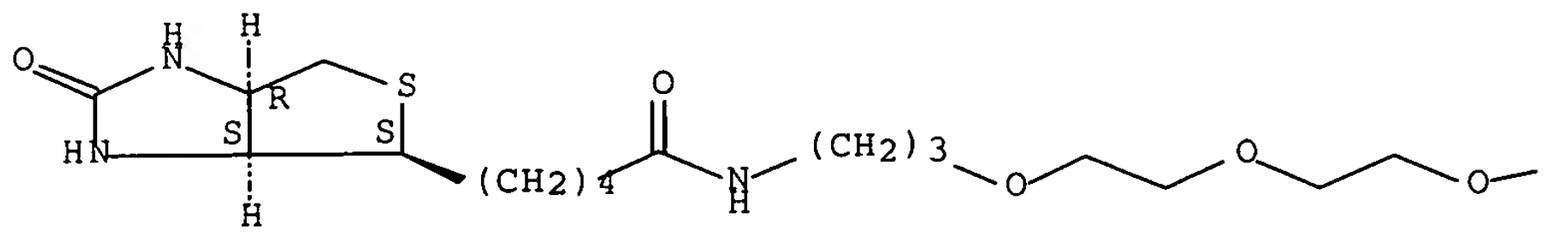

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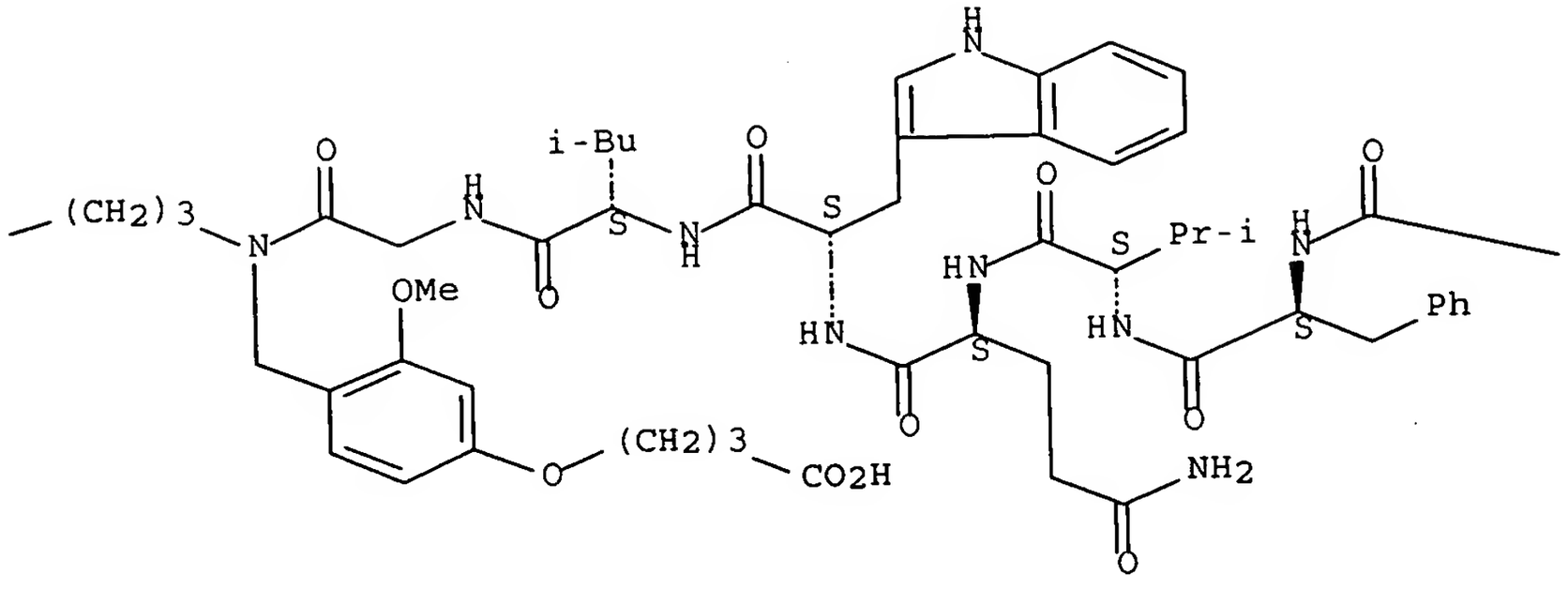

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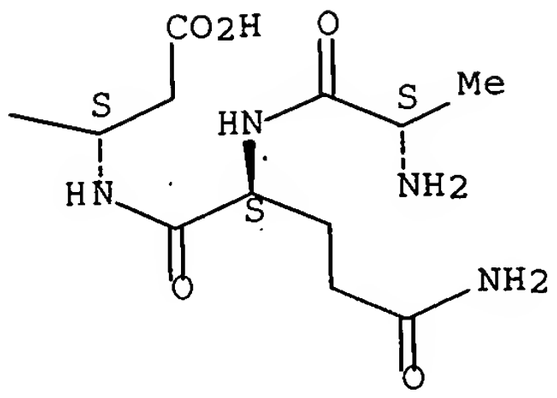

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CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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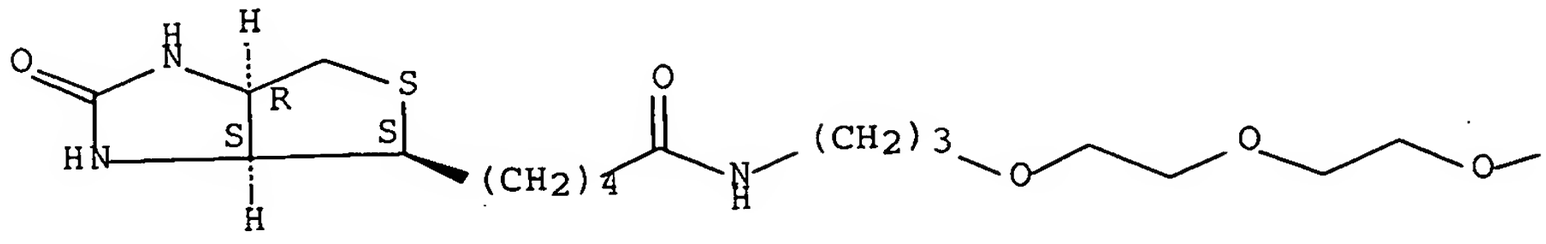

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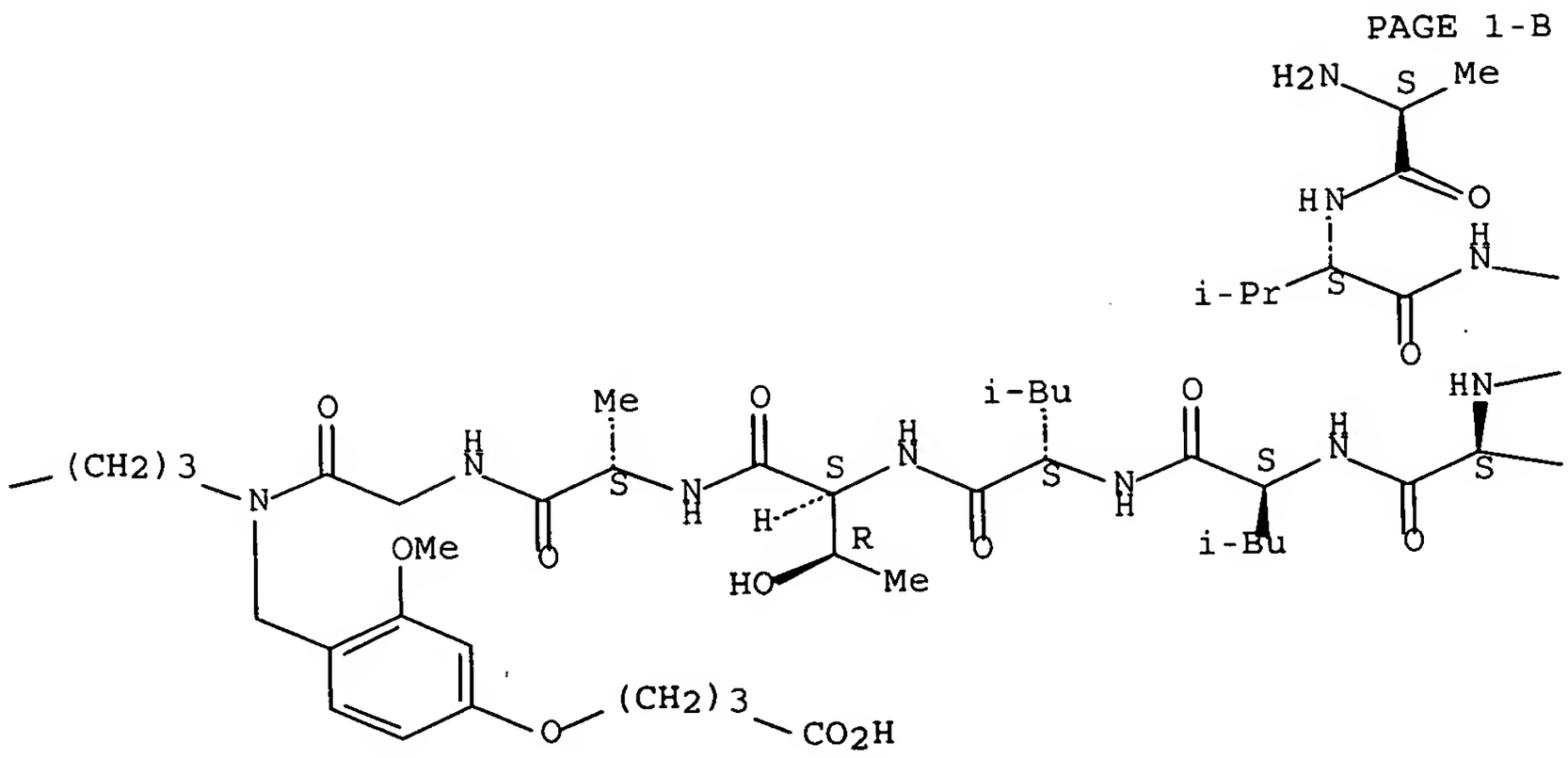

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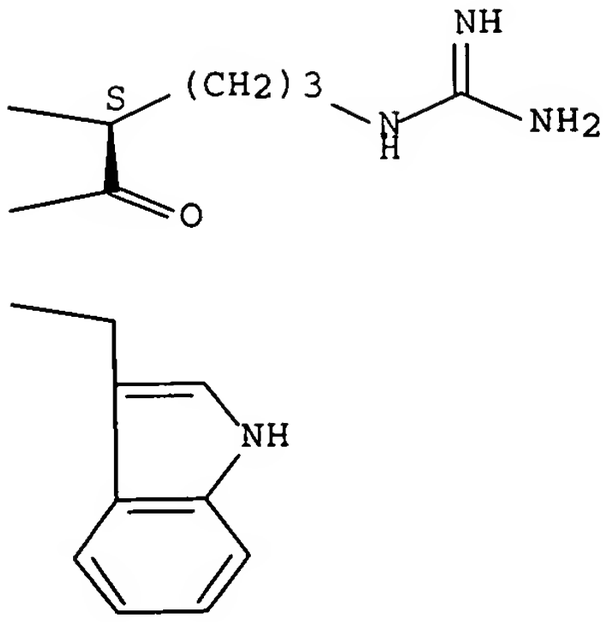

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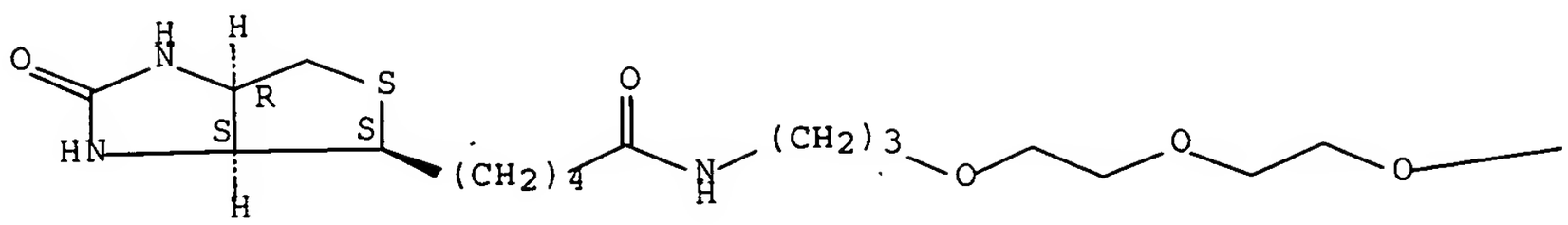

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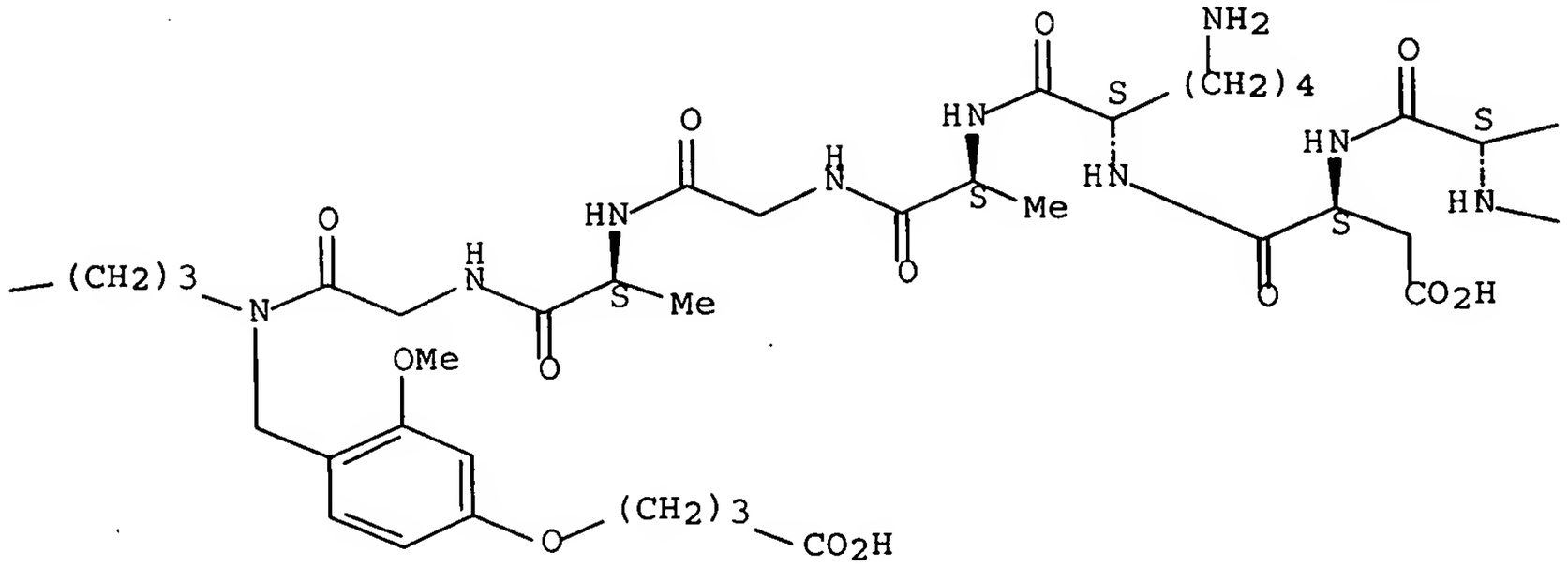

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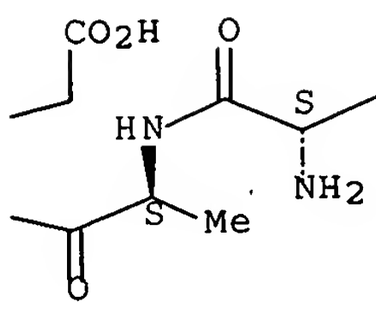

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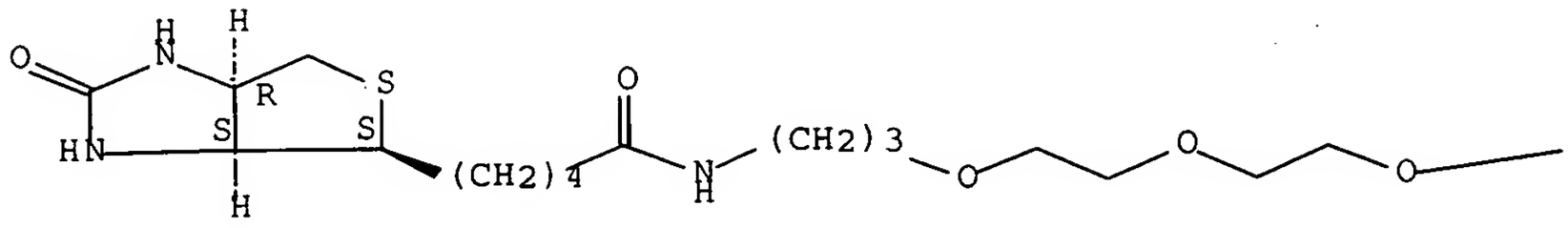

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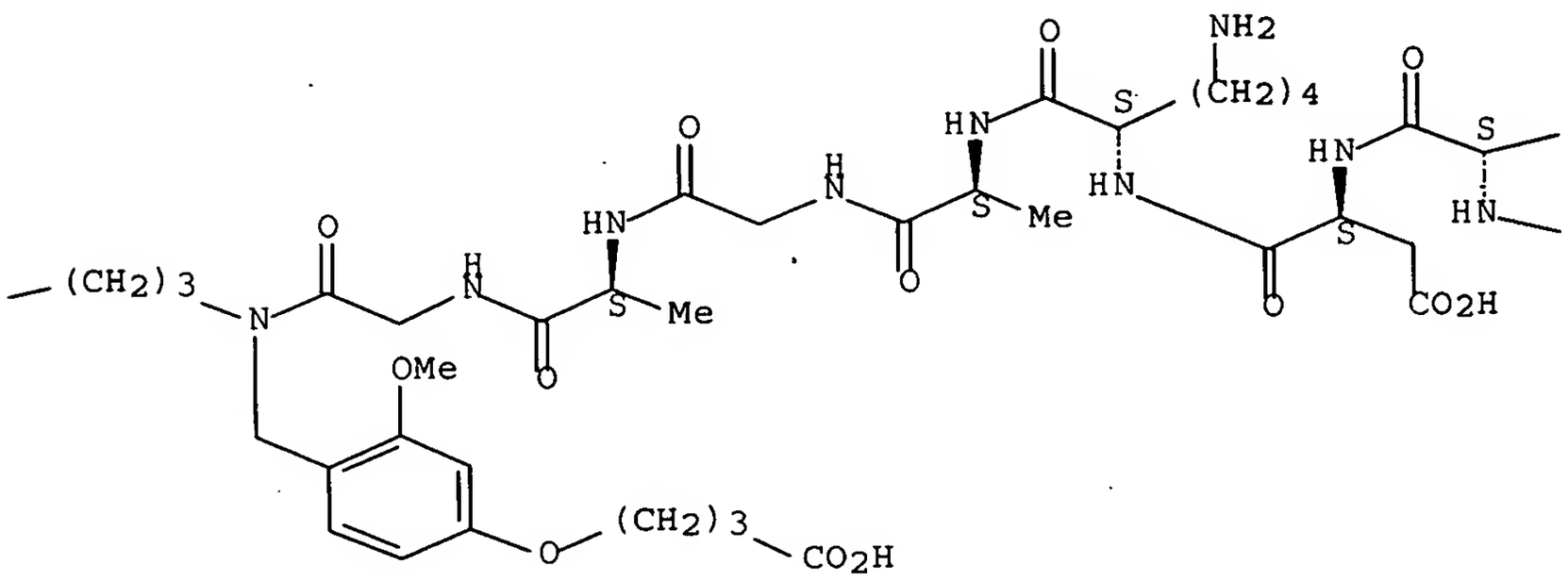

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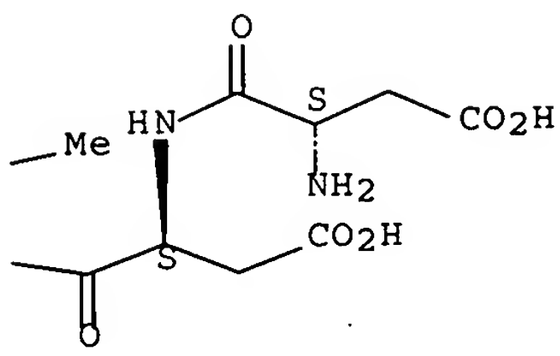

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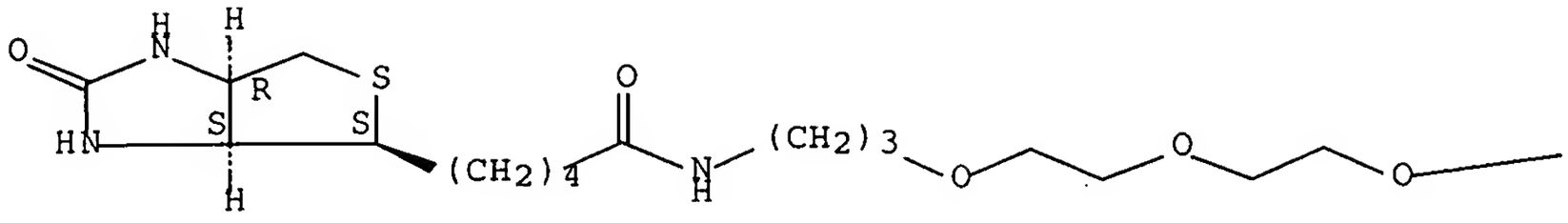

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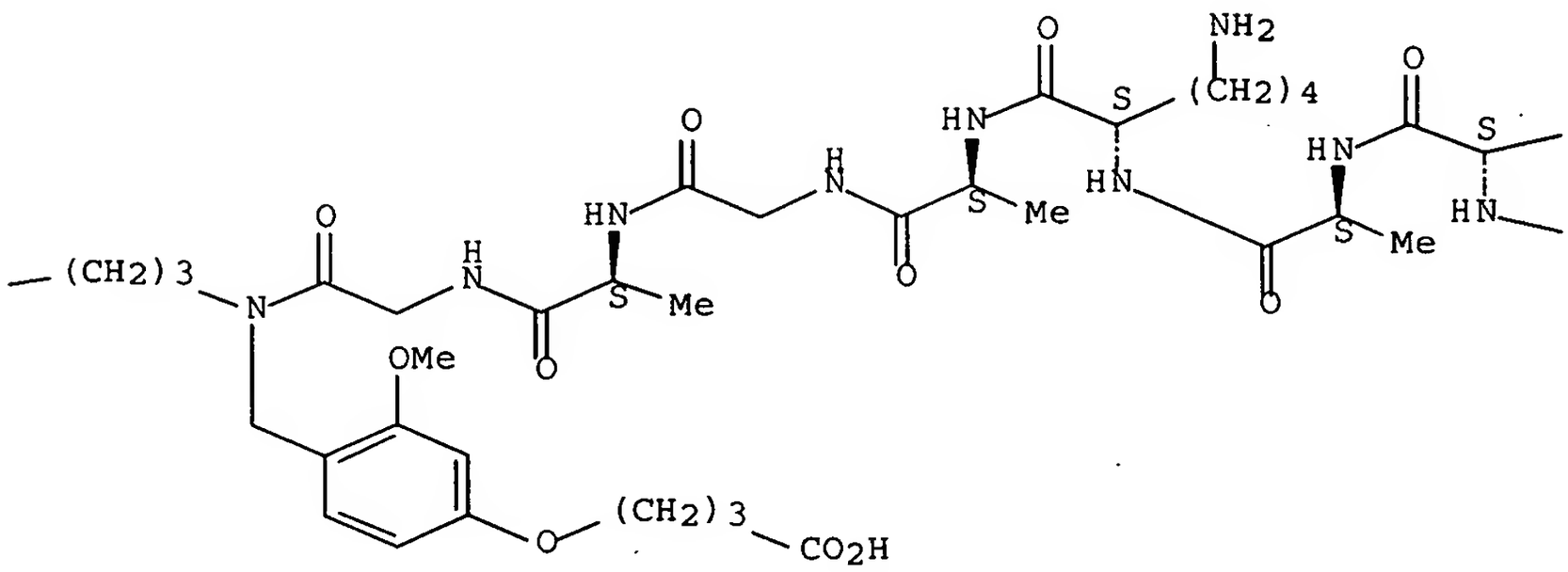

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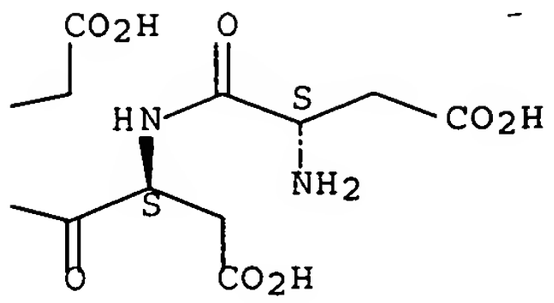

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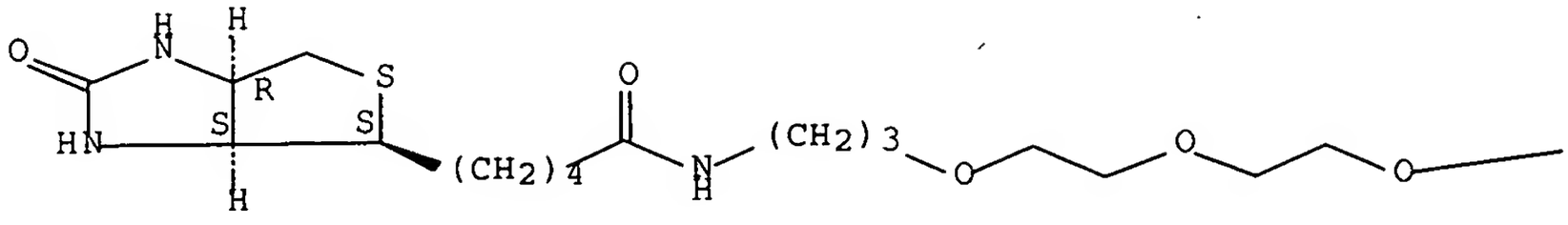

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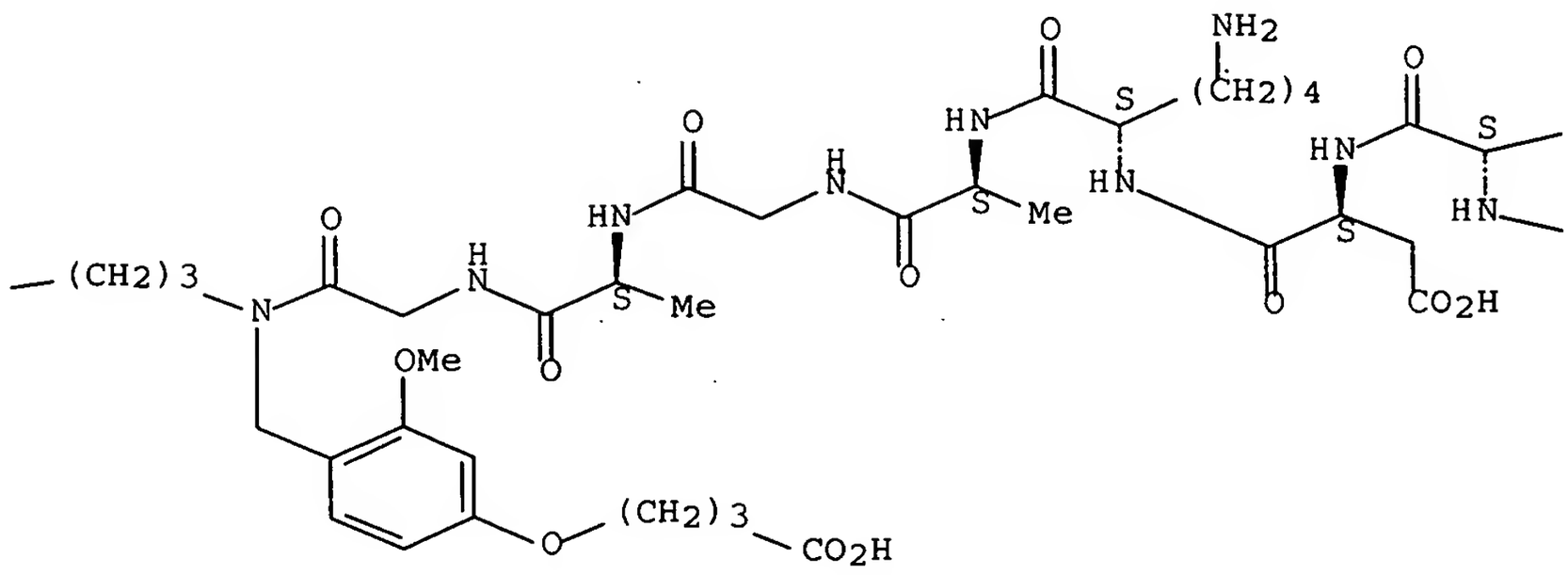

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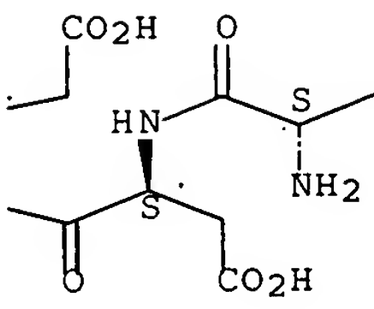

RN 921940-15-0 CAPLUS
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Absolute stereochemistry.

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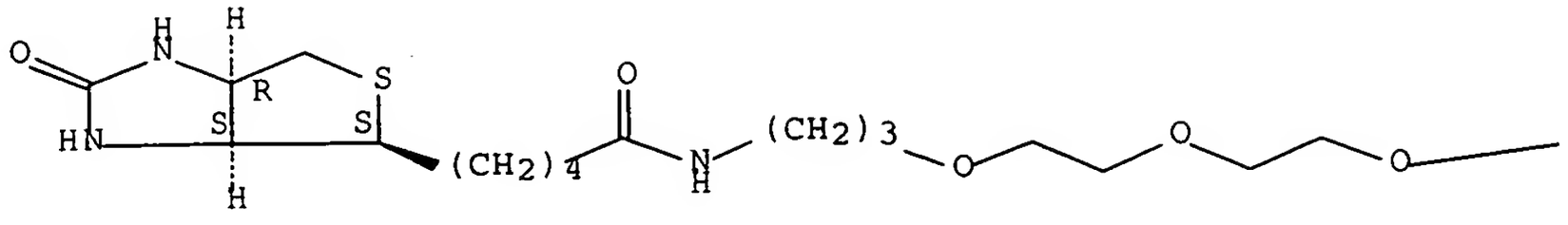

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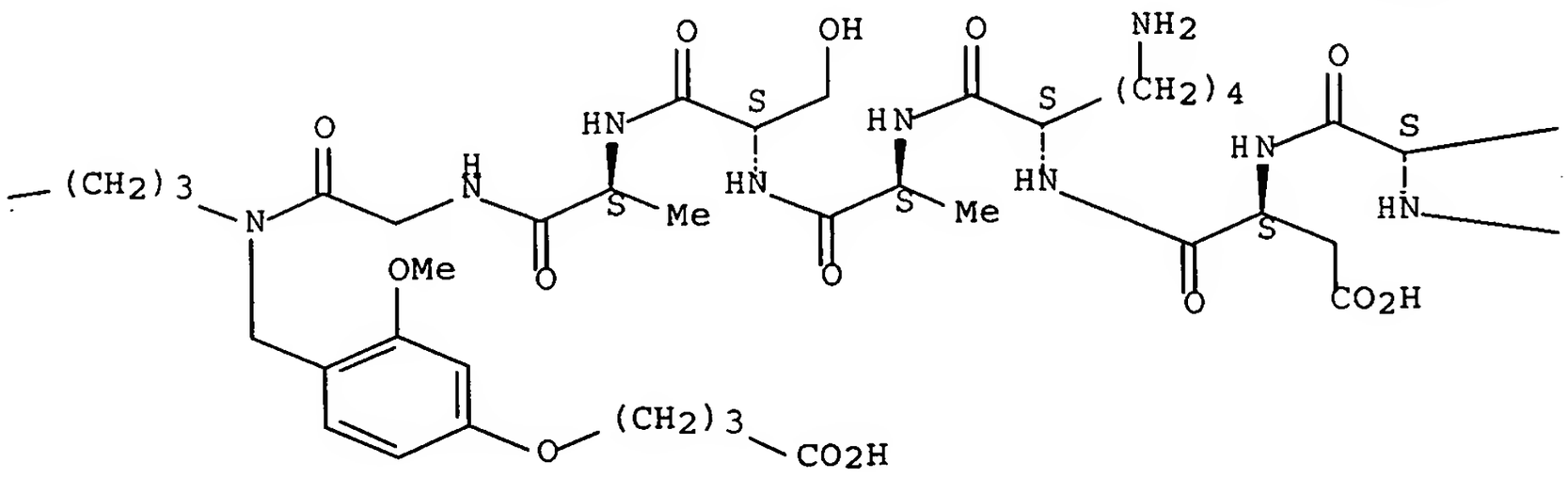

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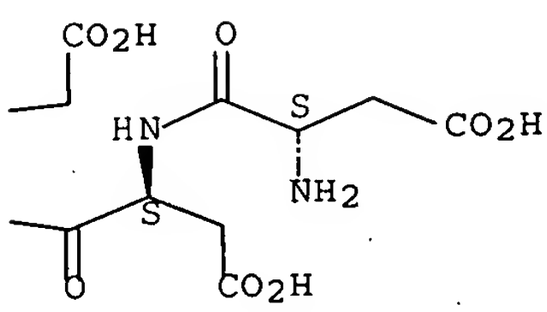

RN 921940-16-1 CAPLUS
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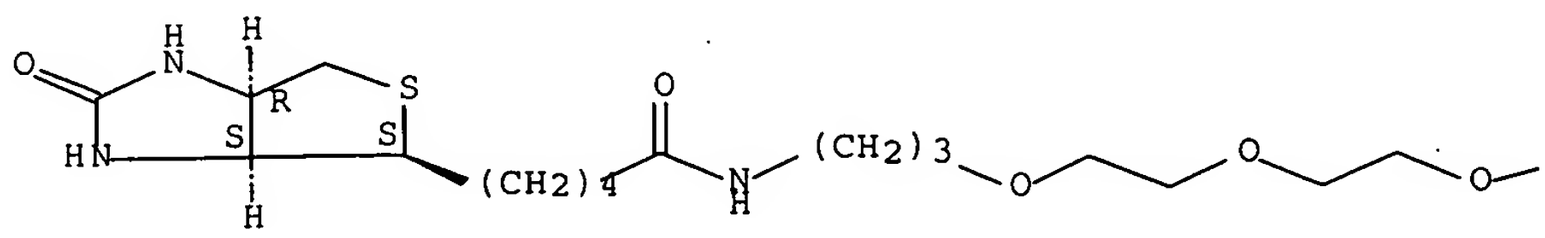

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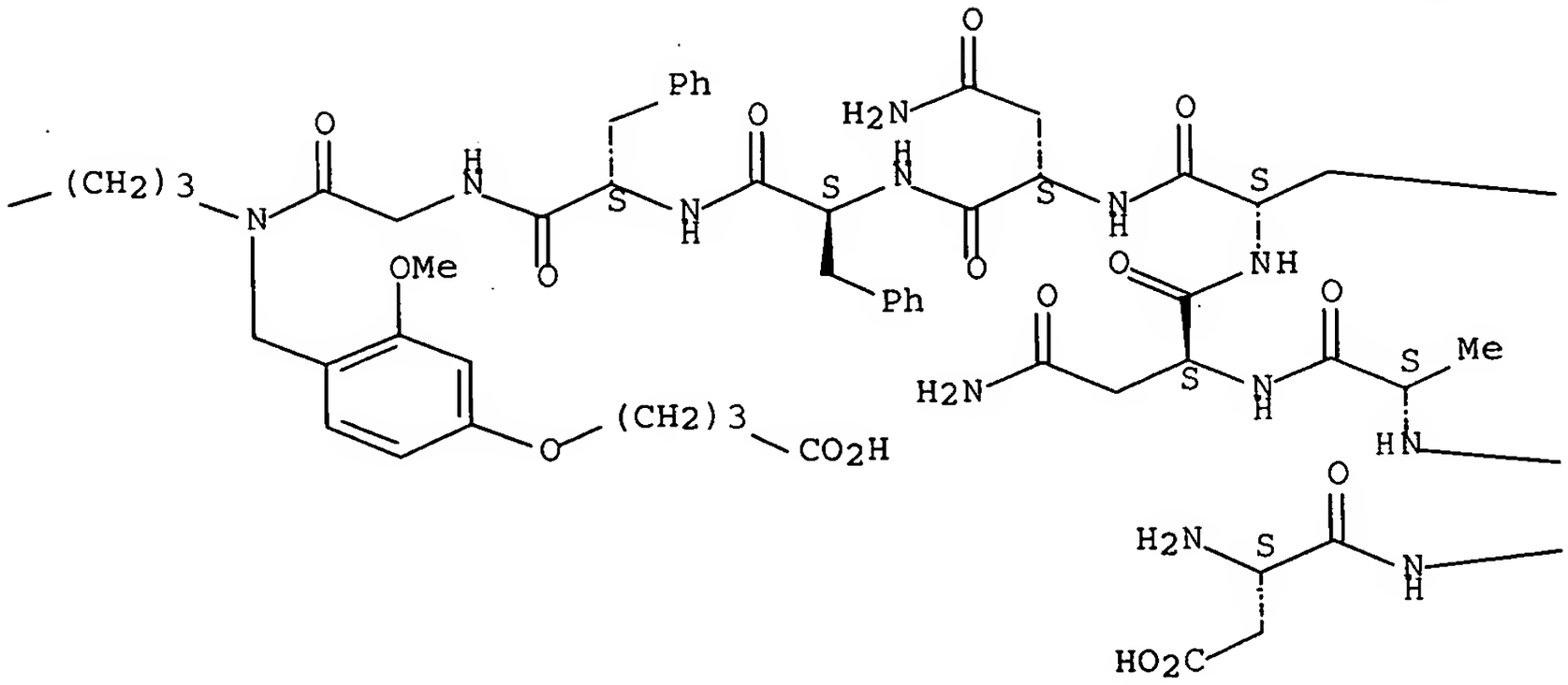

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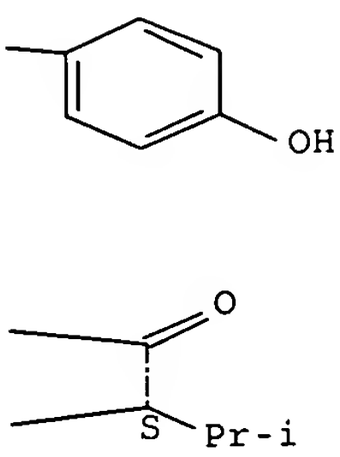

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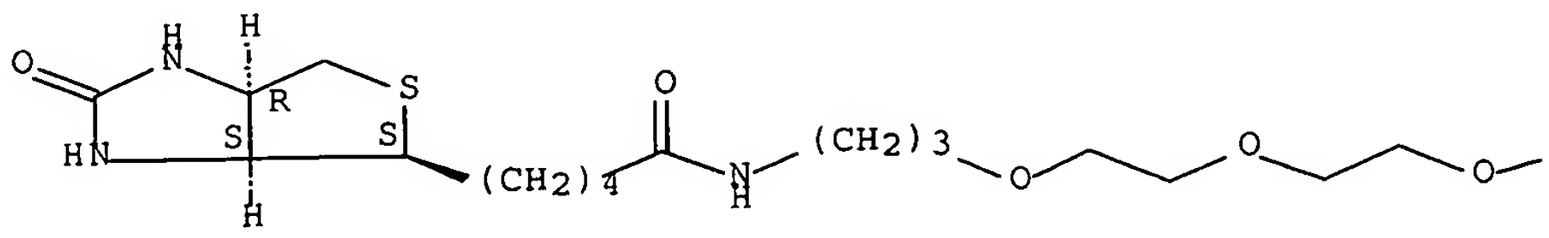

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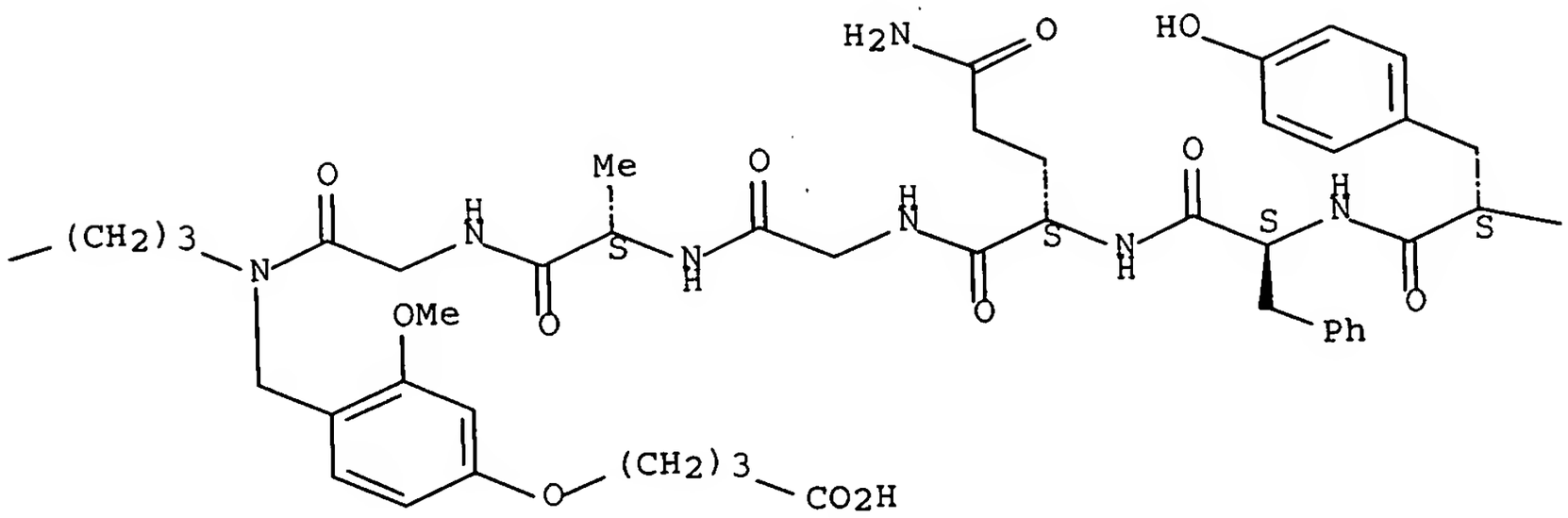

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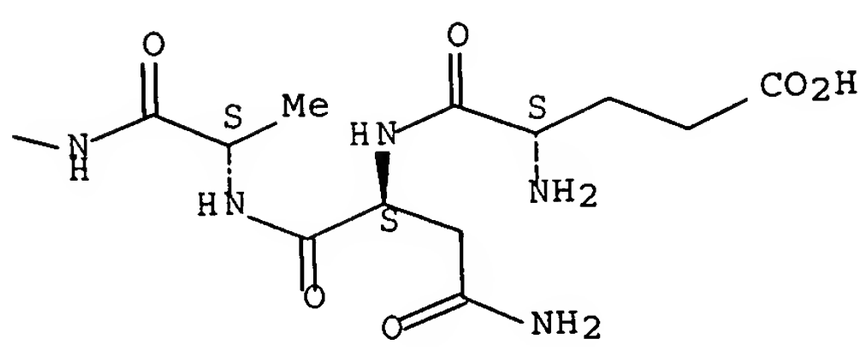

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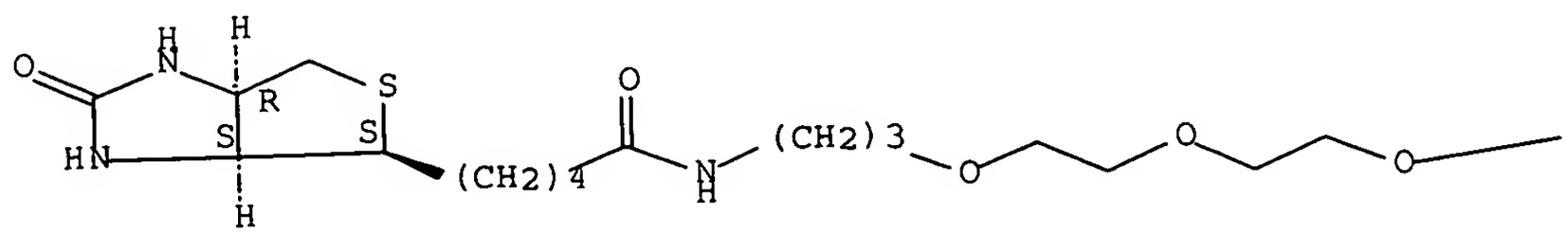

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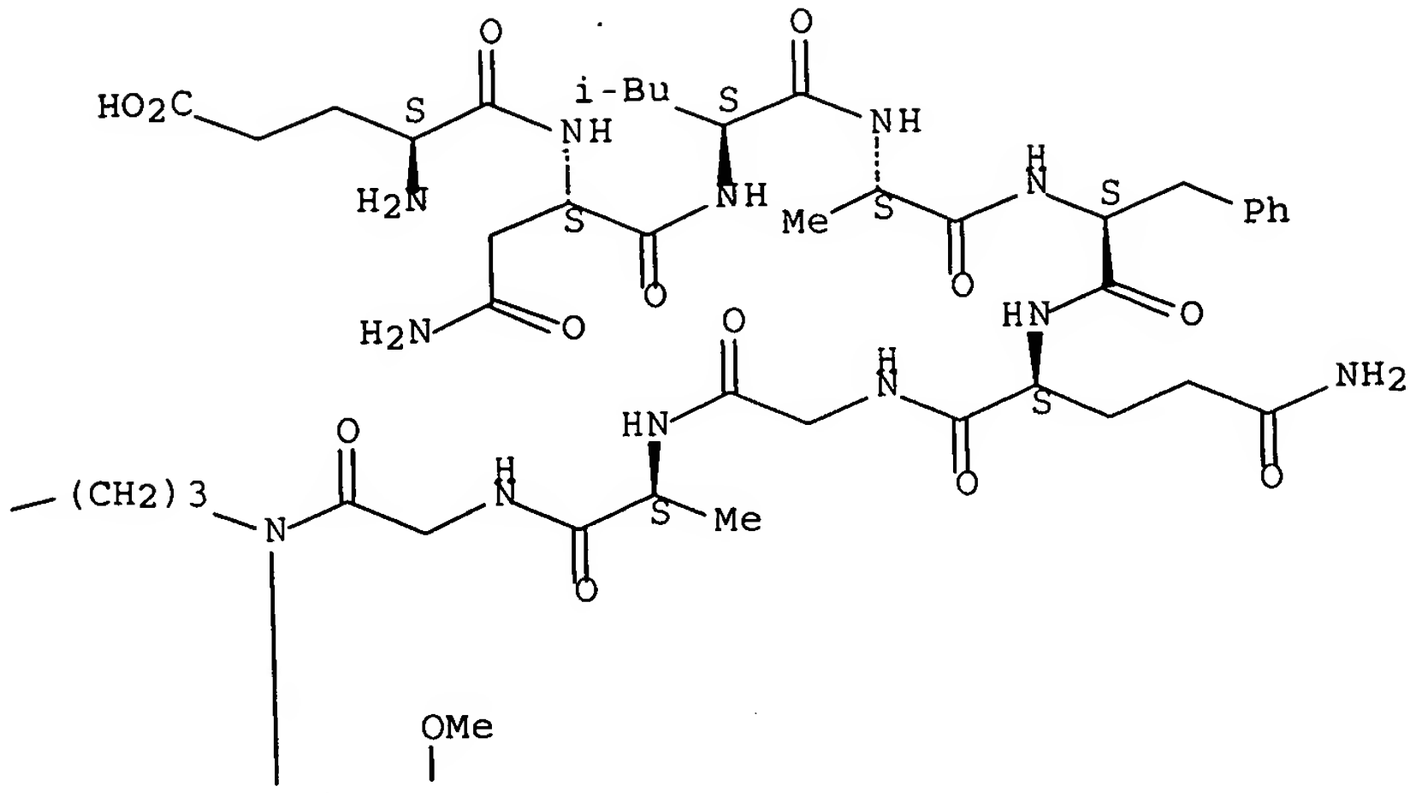

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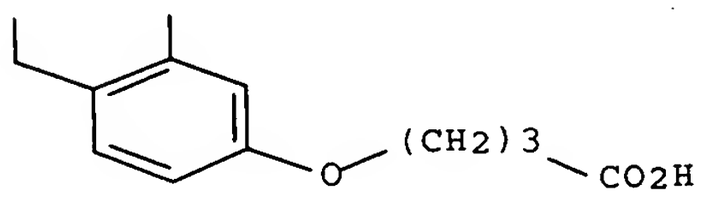

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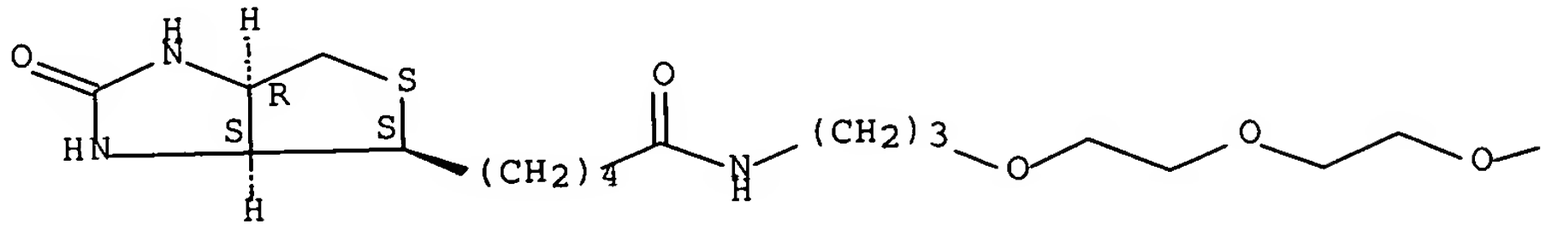

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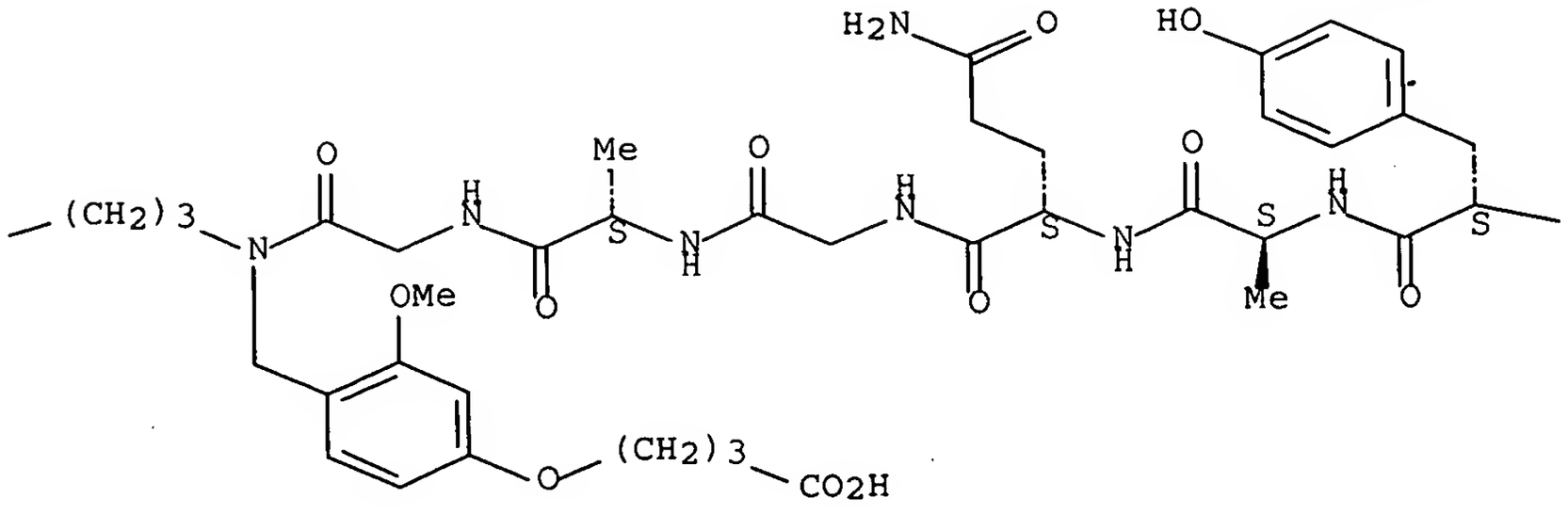

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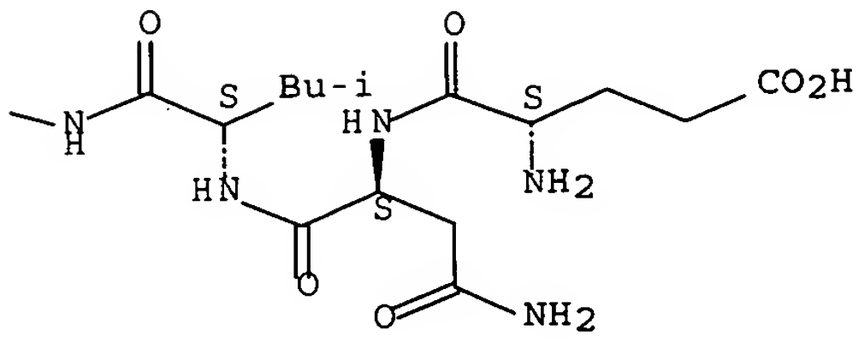

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Absolute stereochemistry.

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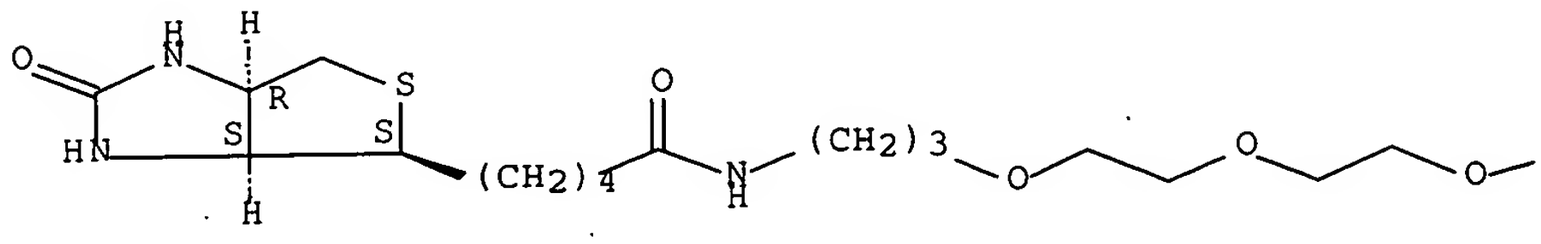

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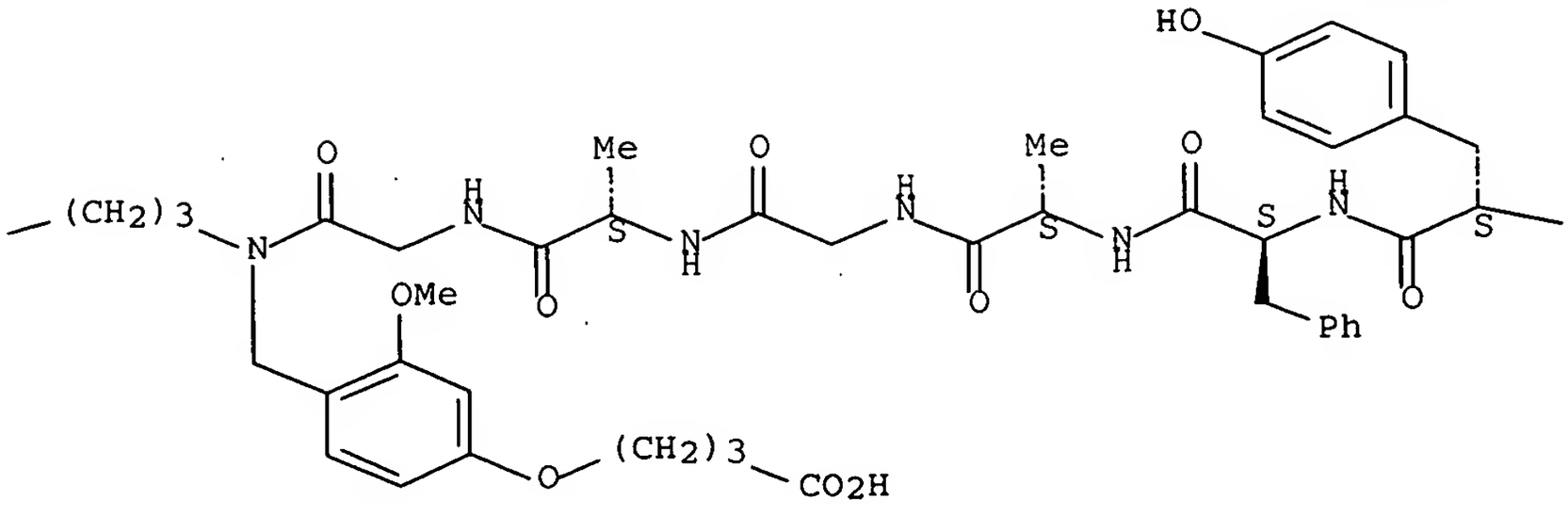

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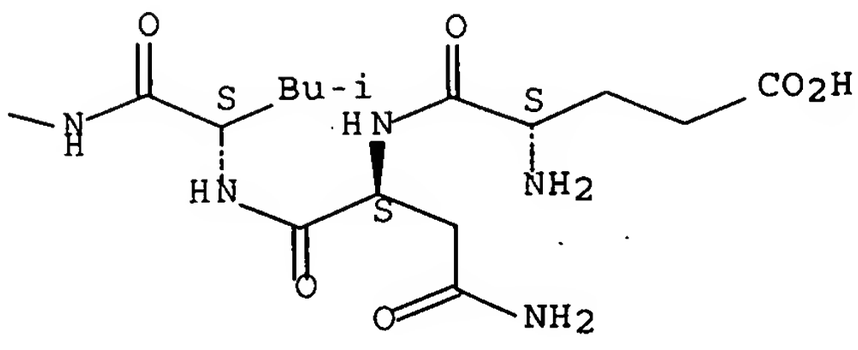

RN 921940-21-8 CAPLUS
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Absolute stereochemistry.

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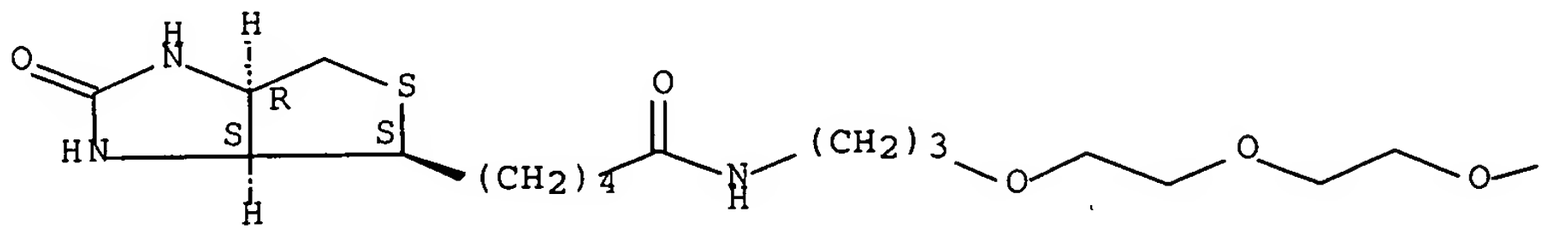

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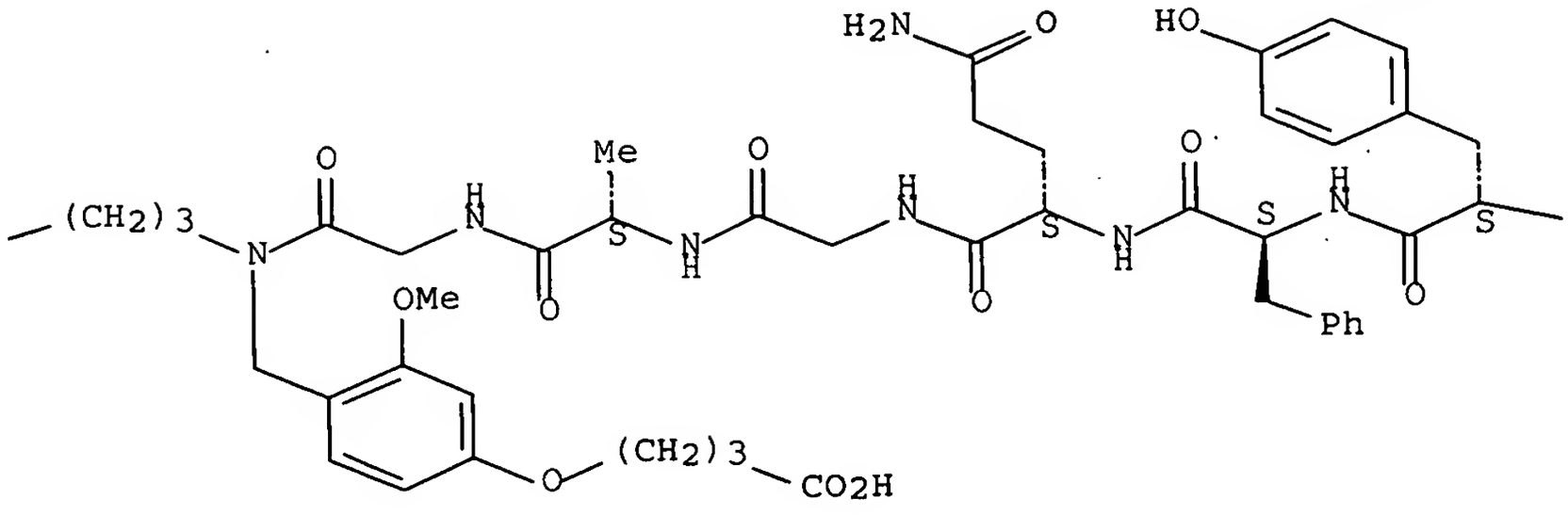

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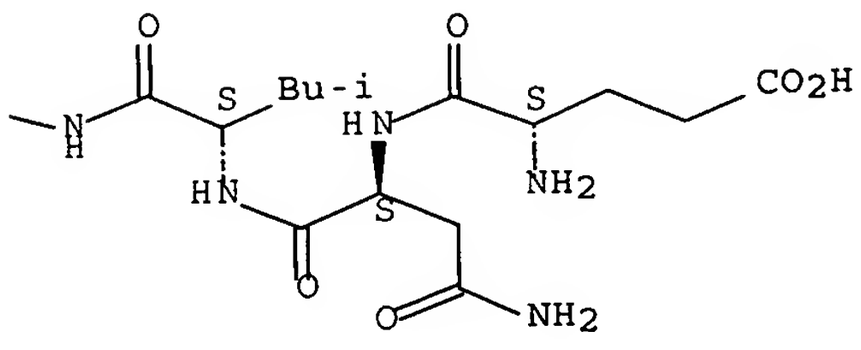

RN 921940-22-9 CAPLUS
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Absolute stereochemistry.

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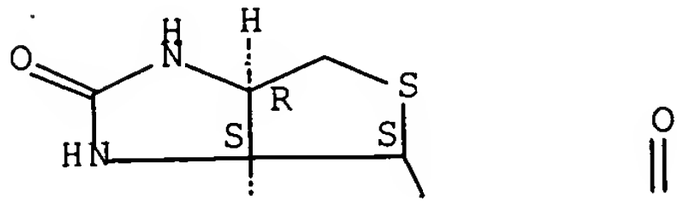

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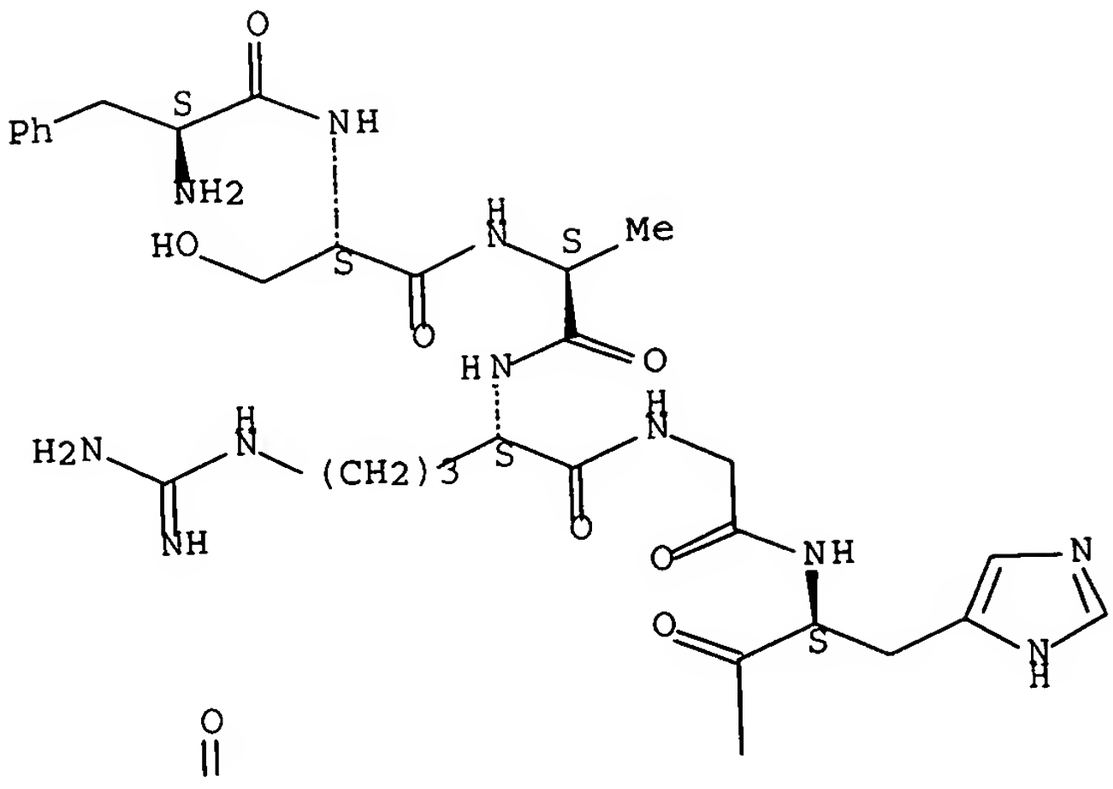

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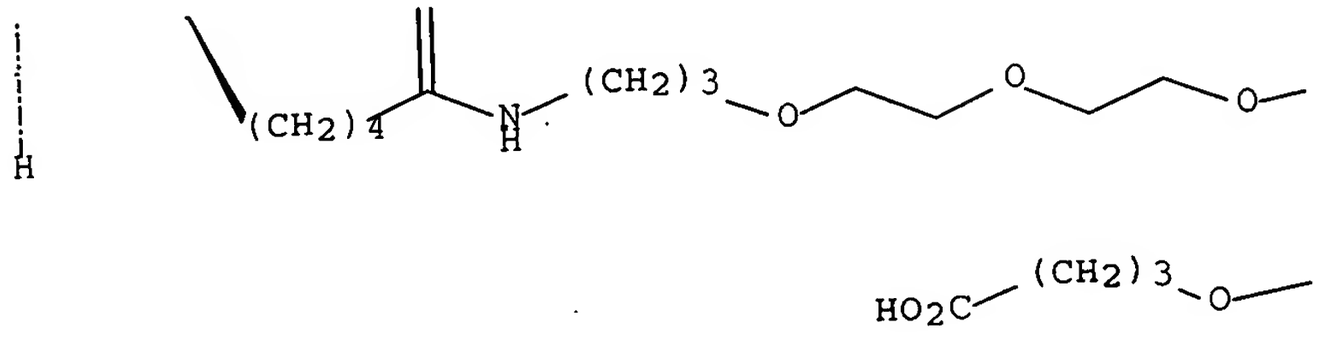

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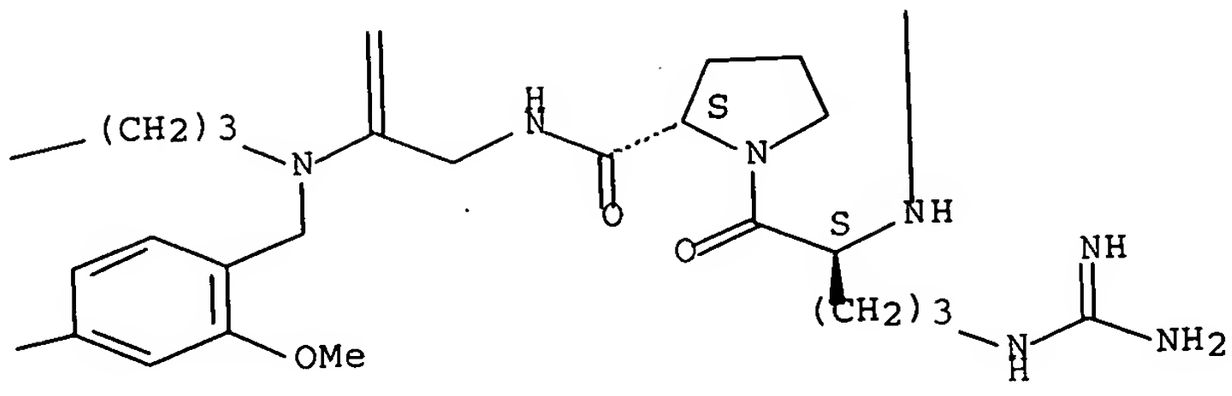

RN 921940-23-0 CAPLUS
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Absolute stereochemistry.

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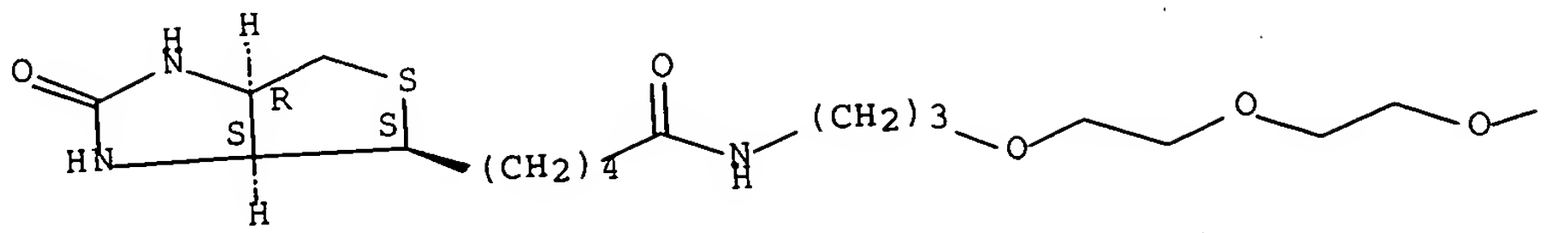

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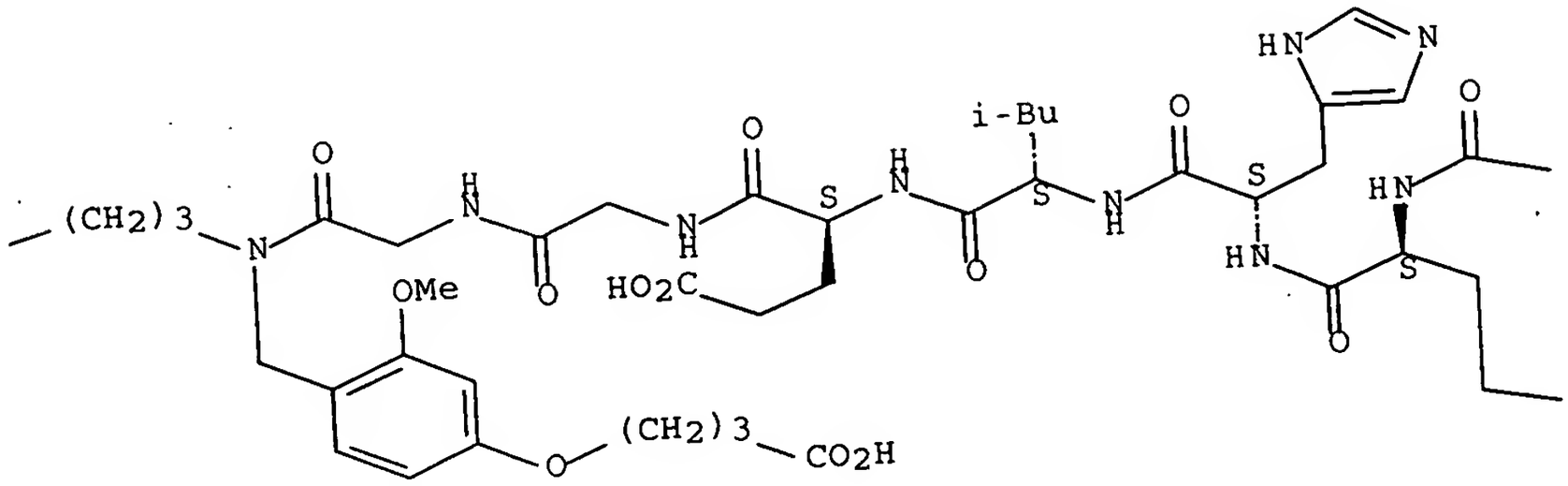

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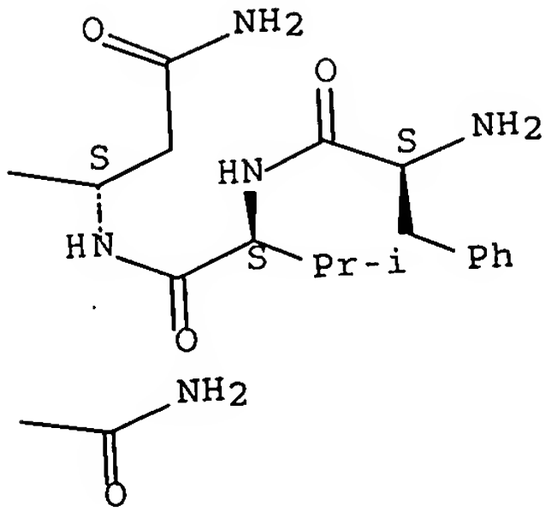

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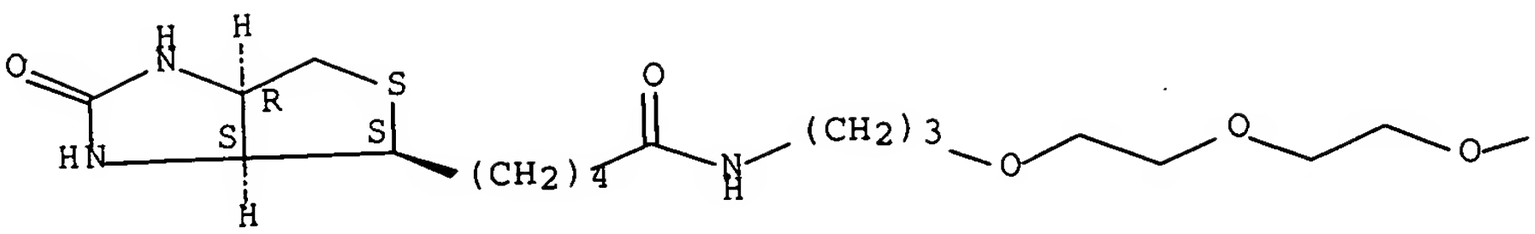

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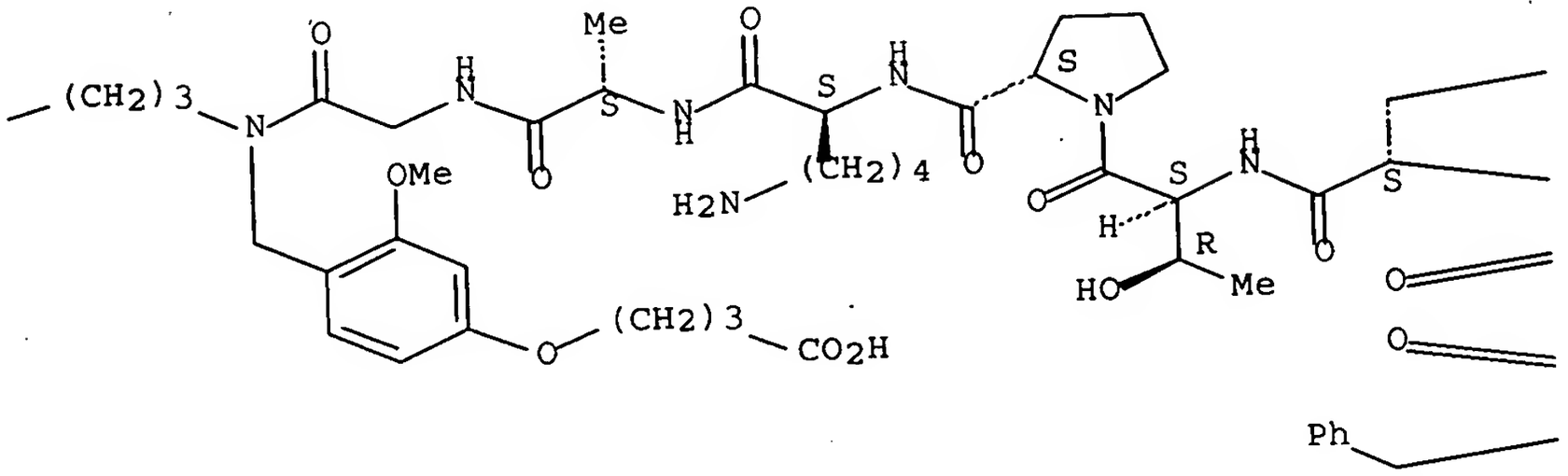

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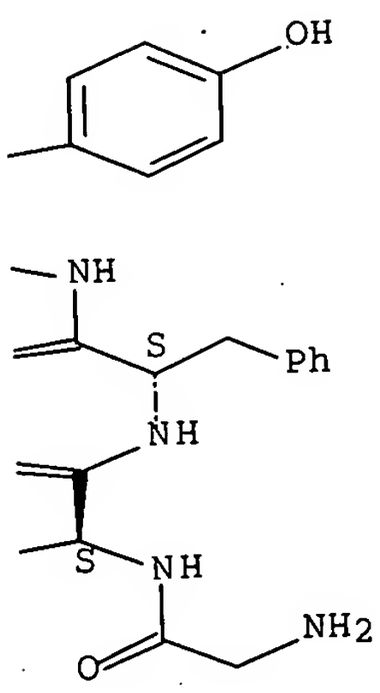

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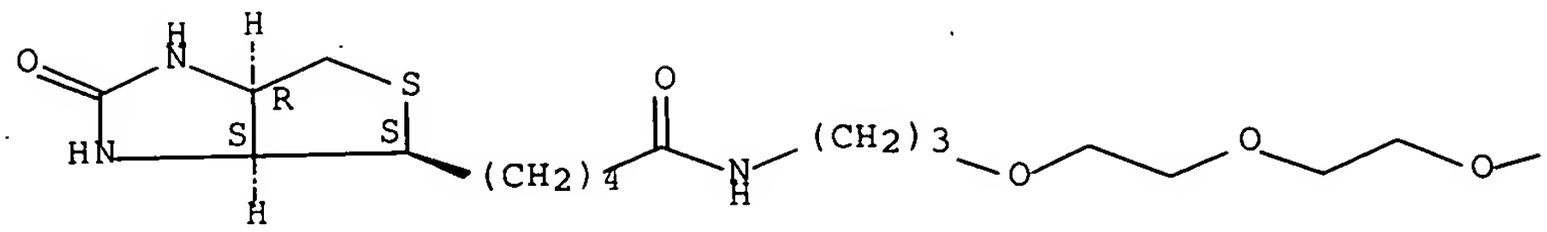

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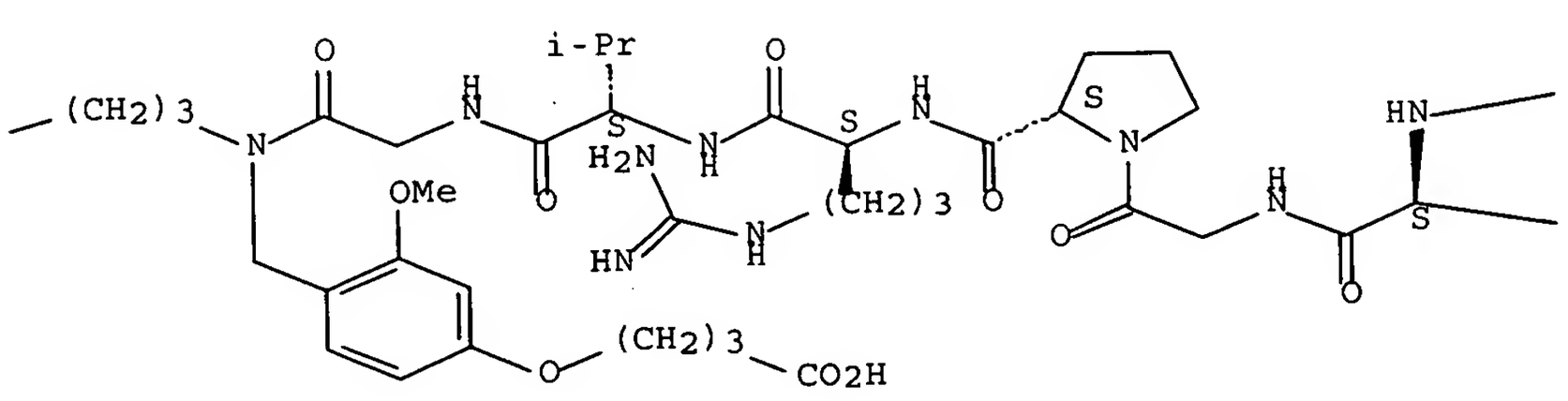

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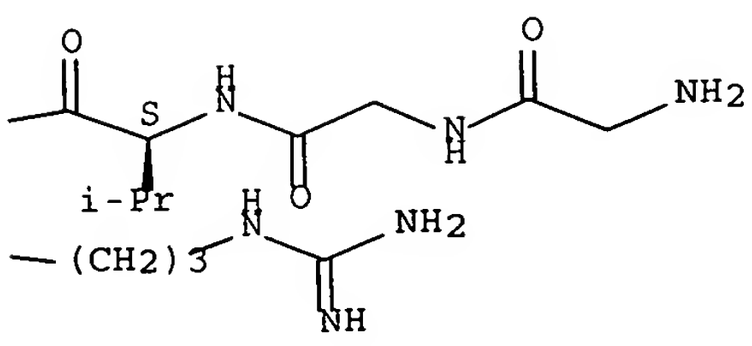

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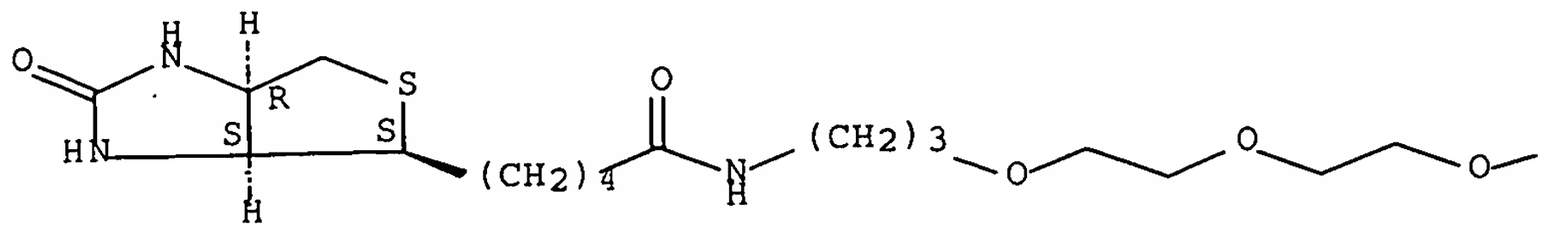

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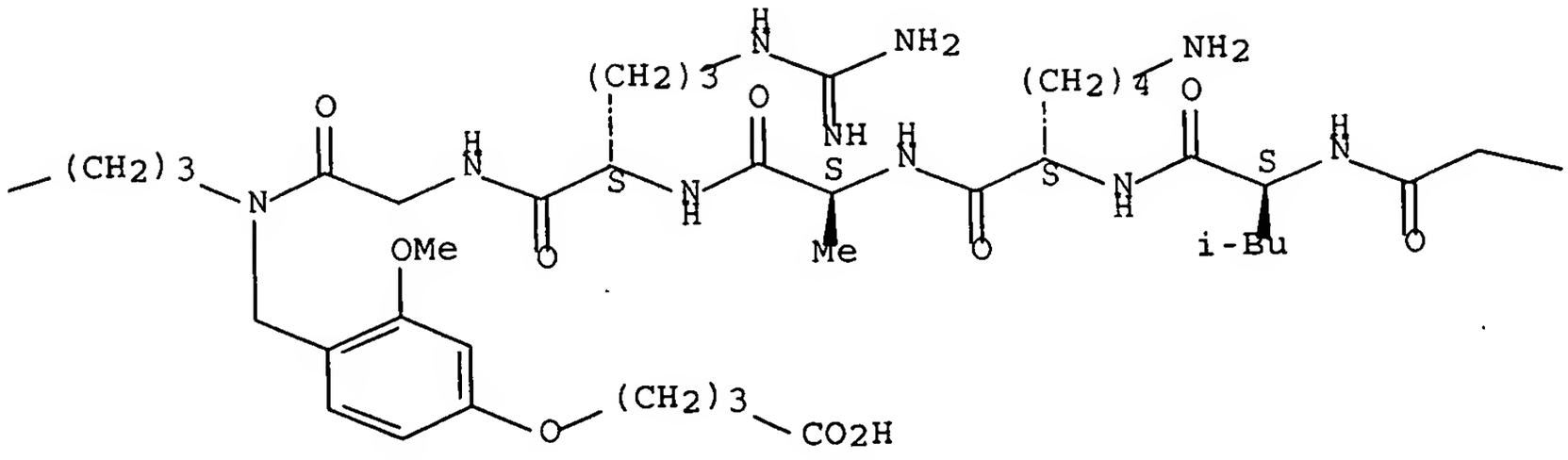

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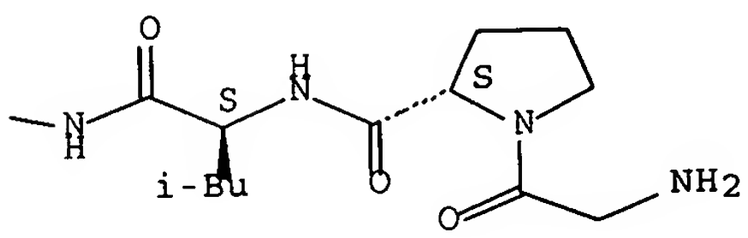

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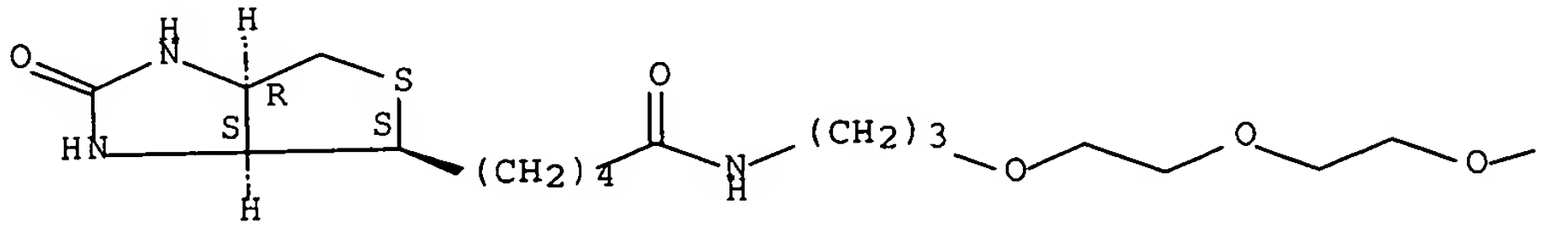

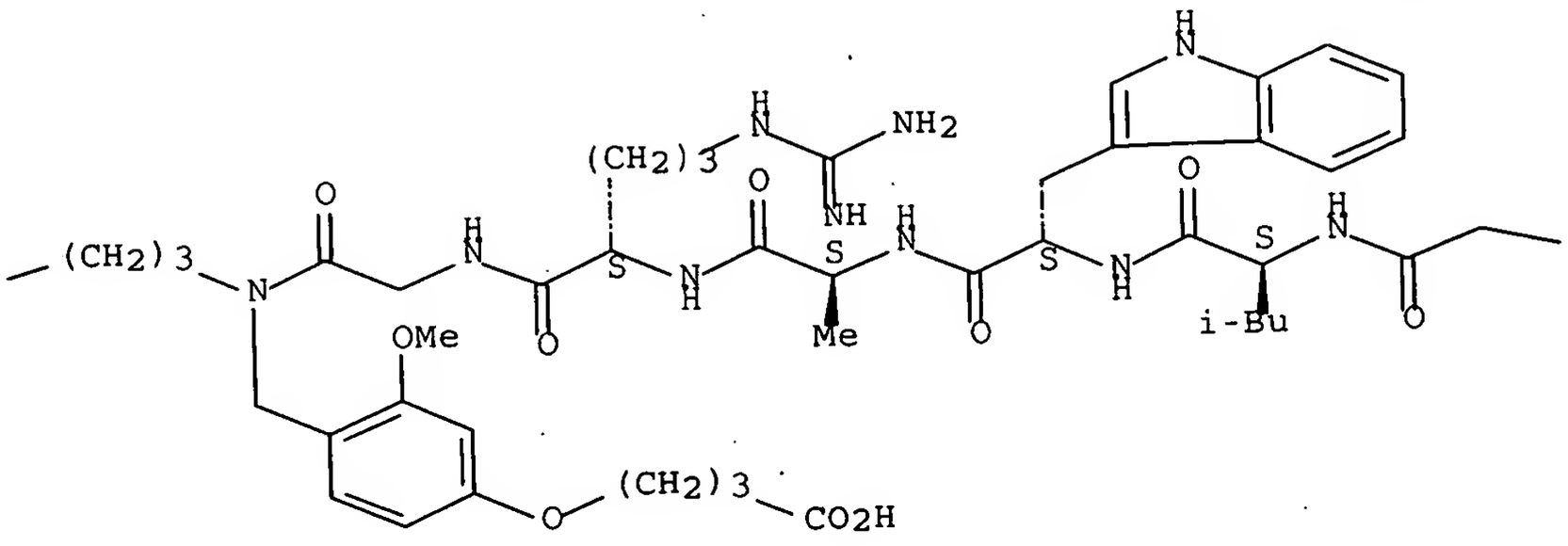

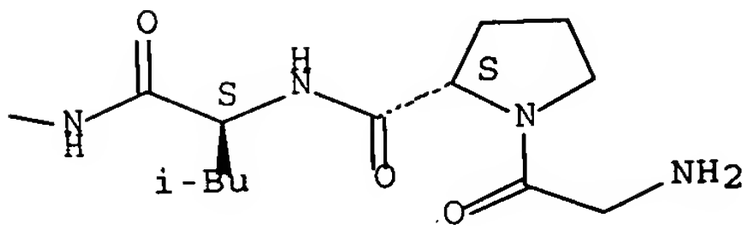

RN 921940-28-5 CAPLUS
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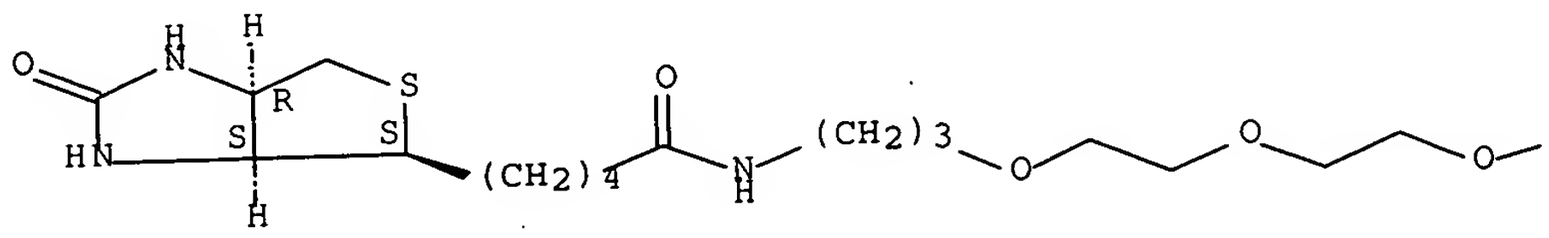

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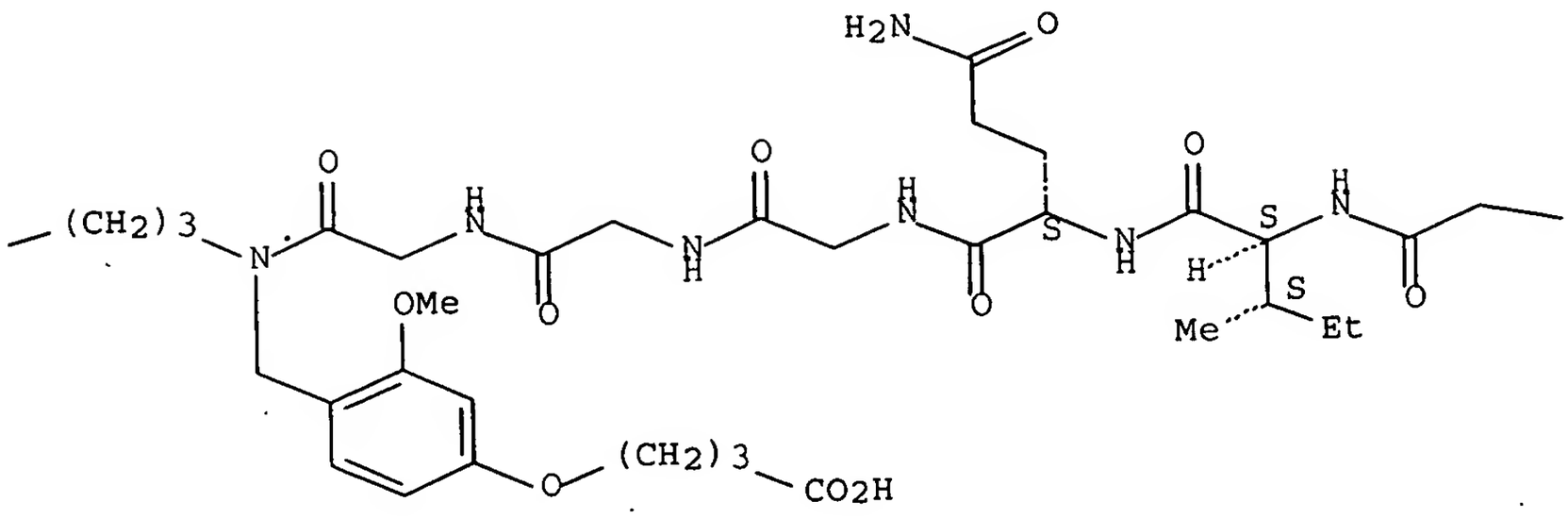

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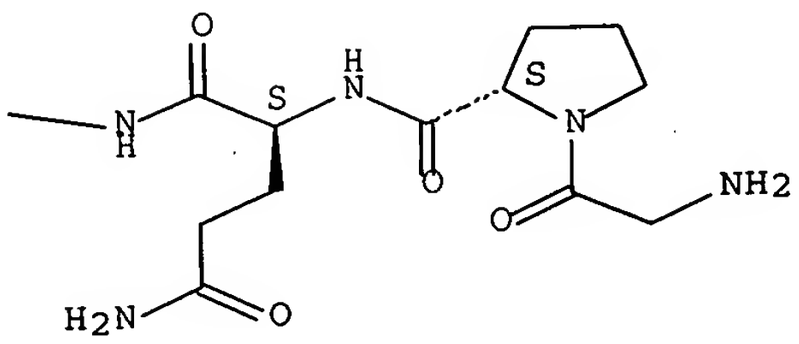

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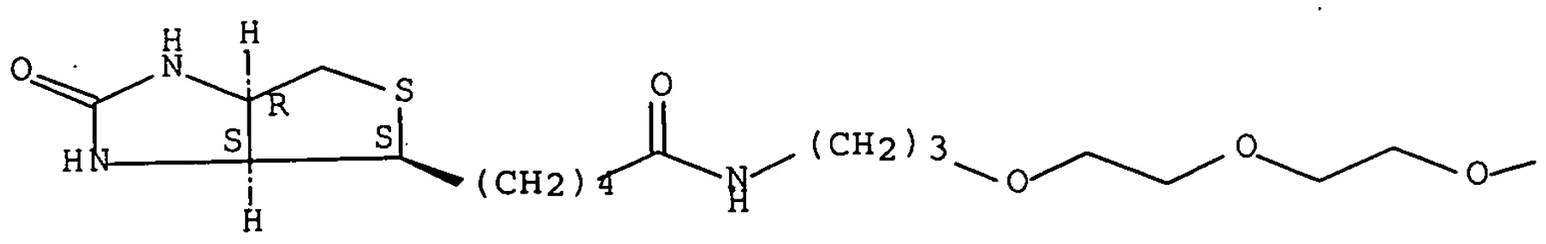

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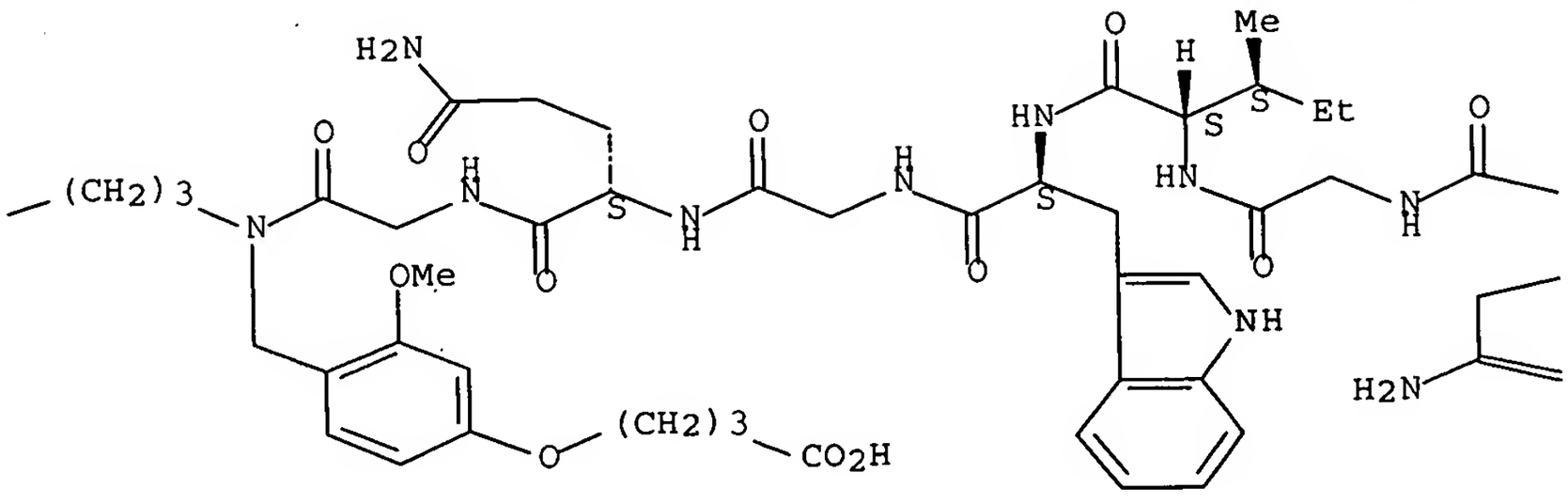

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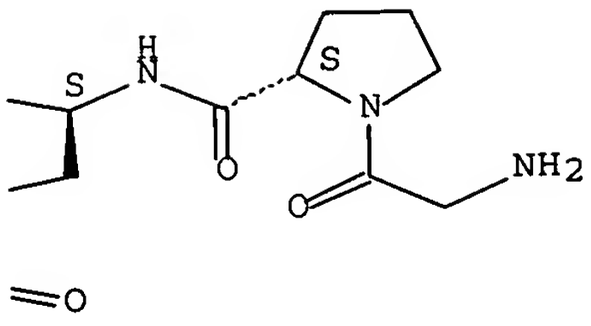

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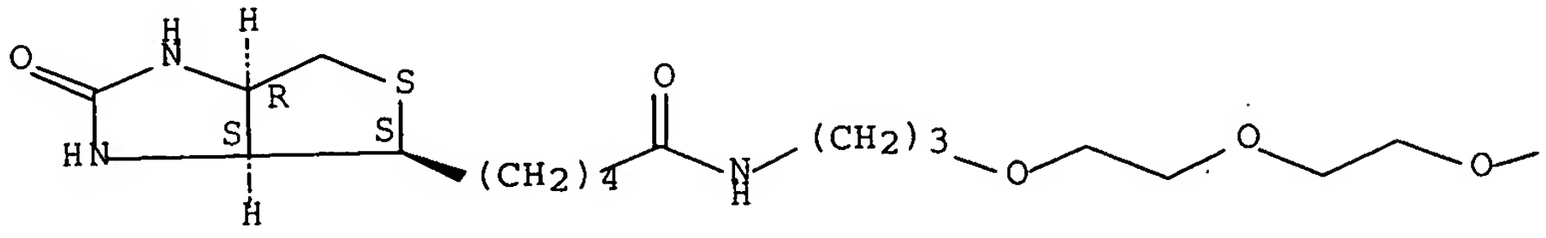

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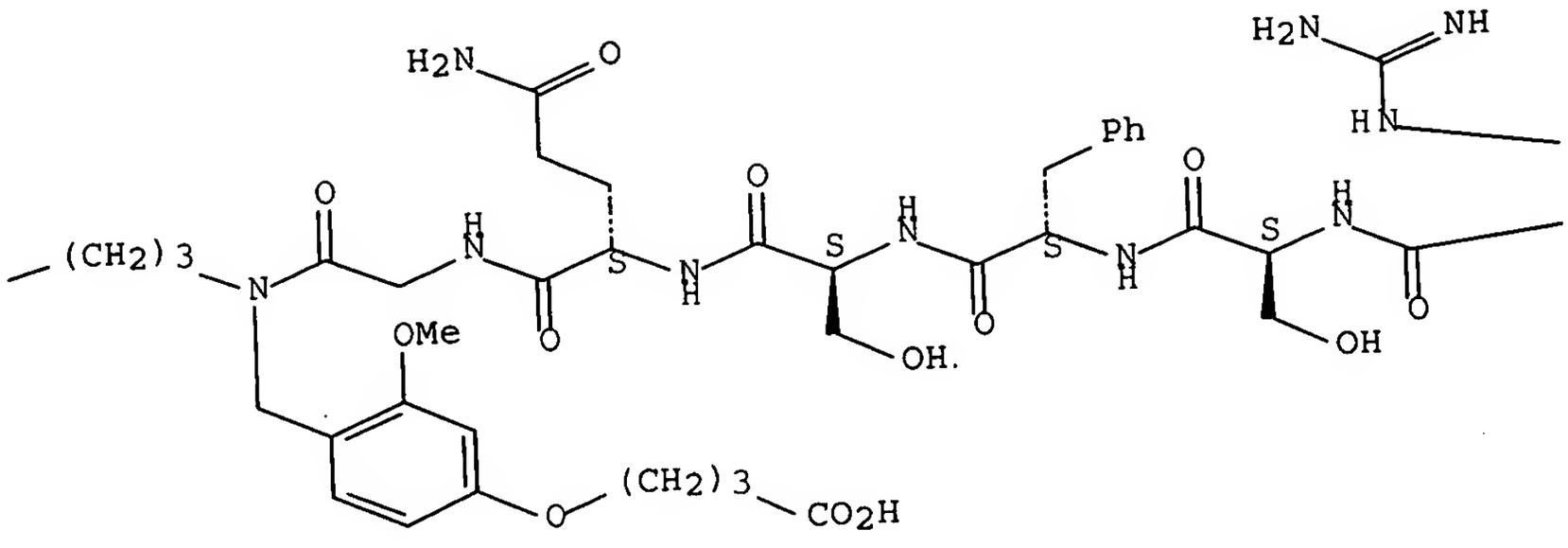

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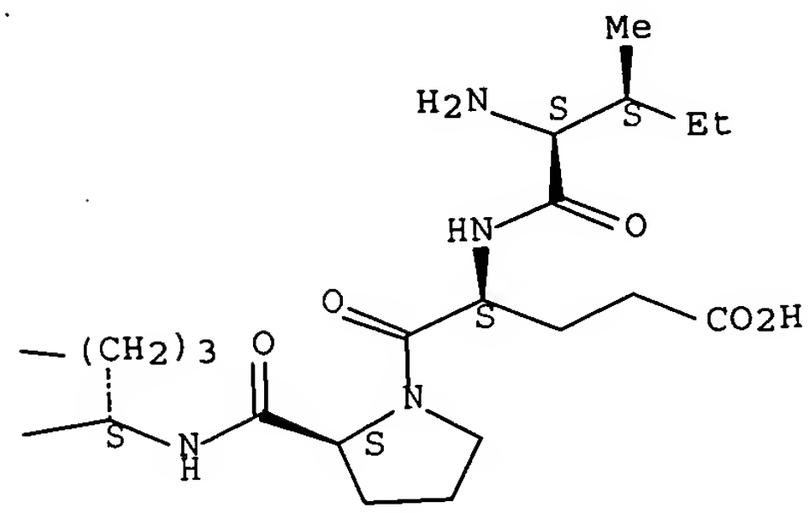

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Absolute stereochemistry.

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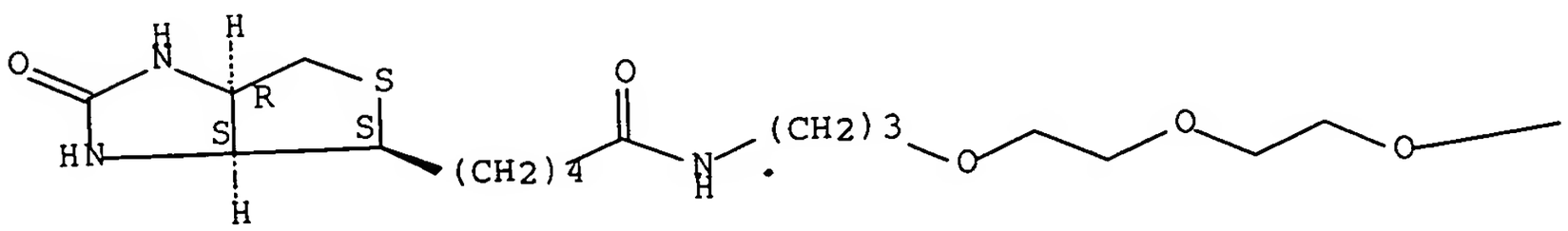

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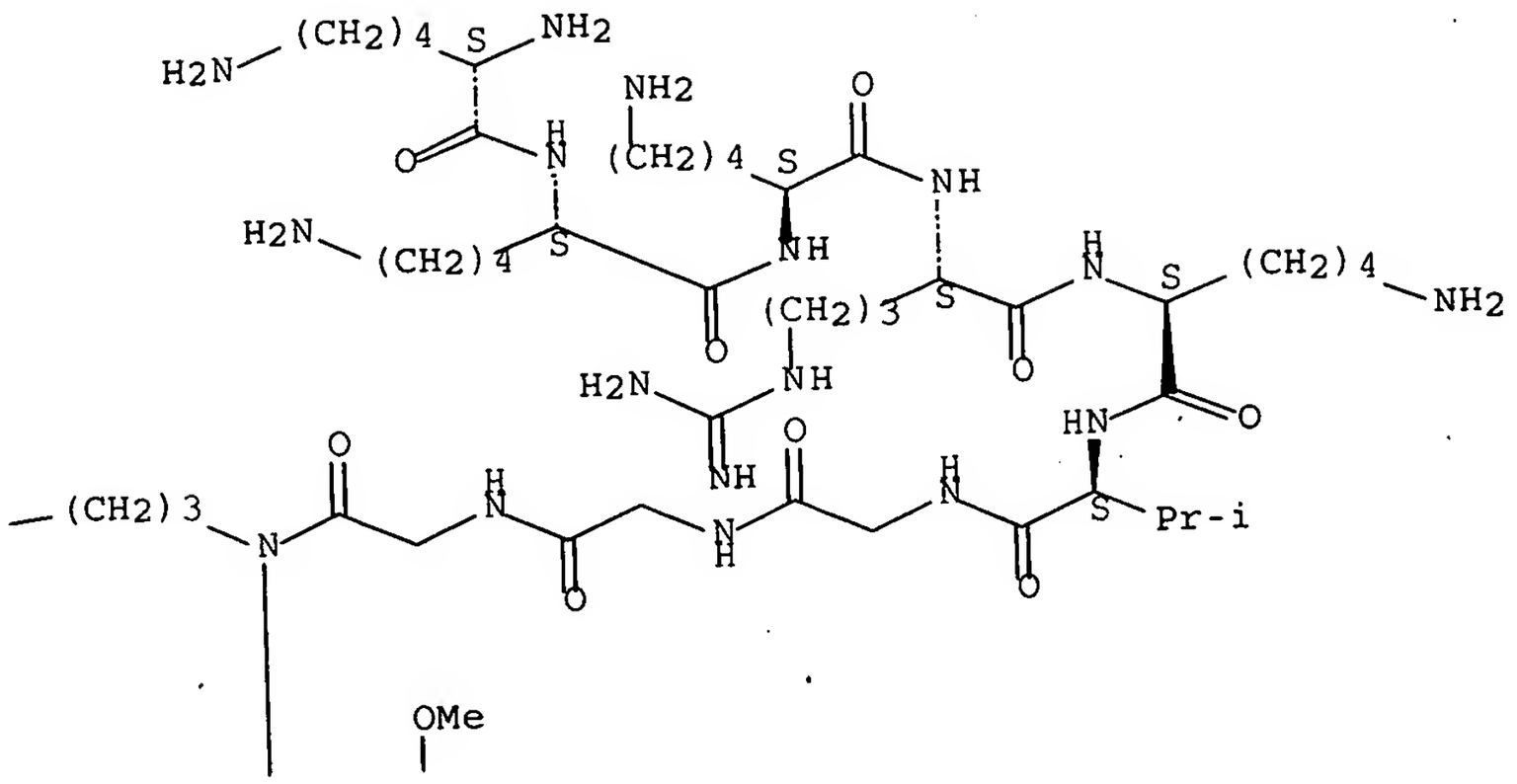

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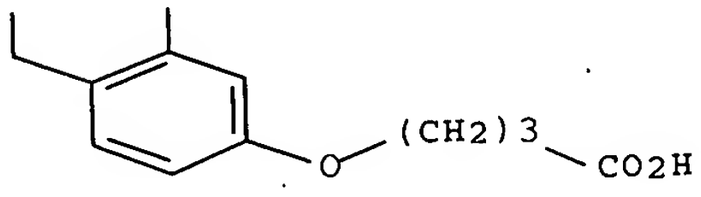

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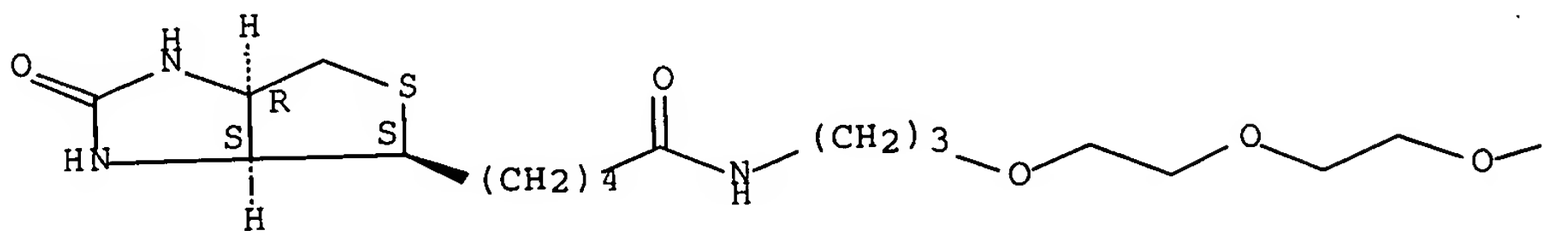

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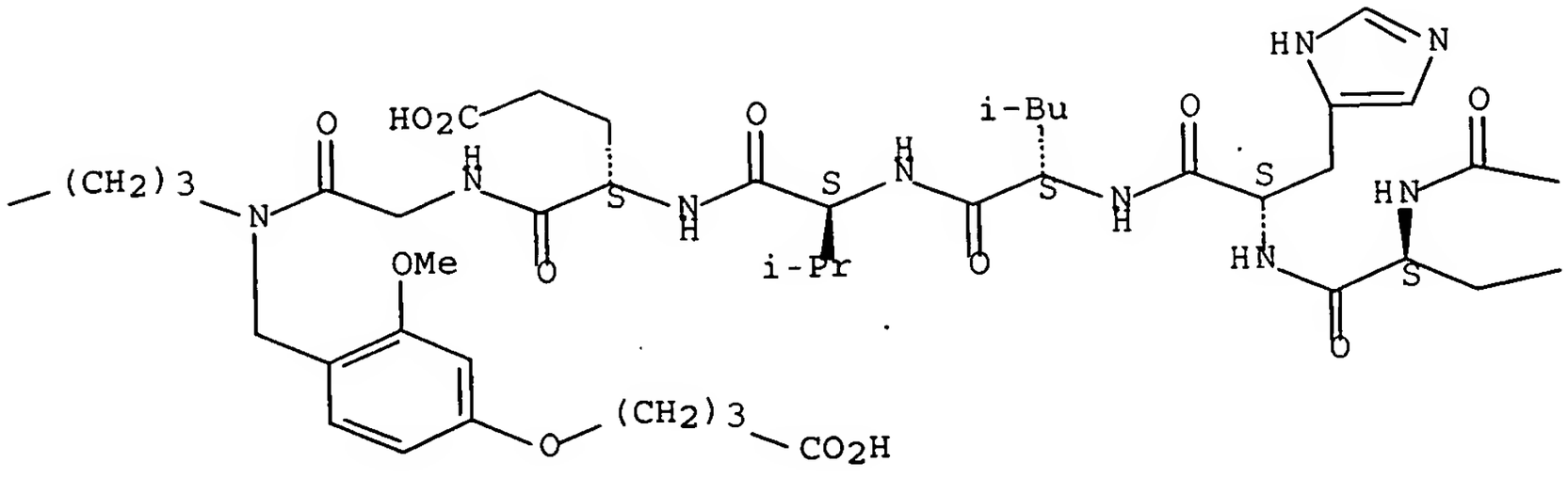

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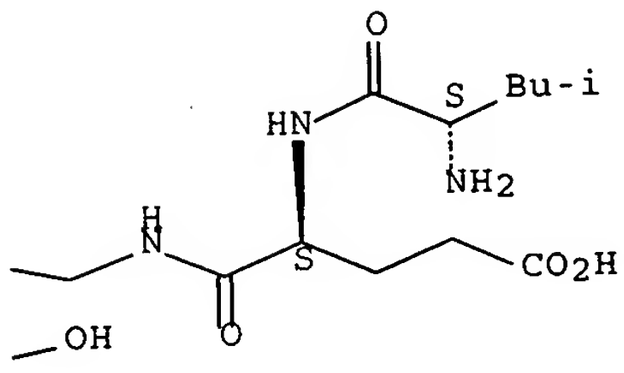

RN 921940-33-2 CAPLUS
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Absolute stereochemistry.

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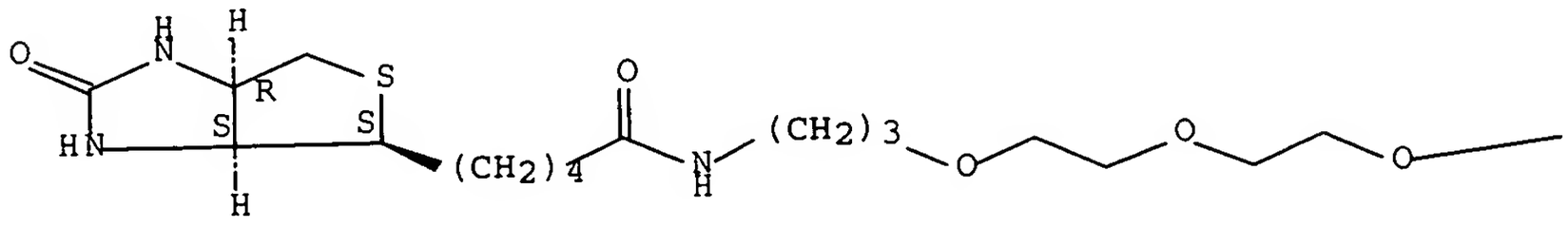

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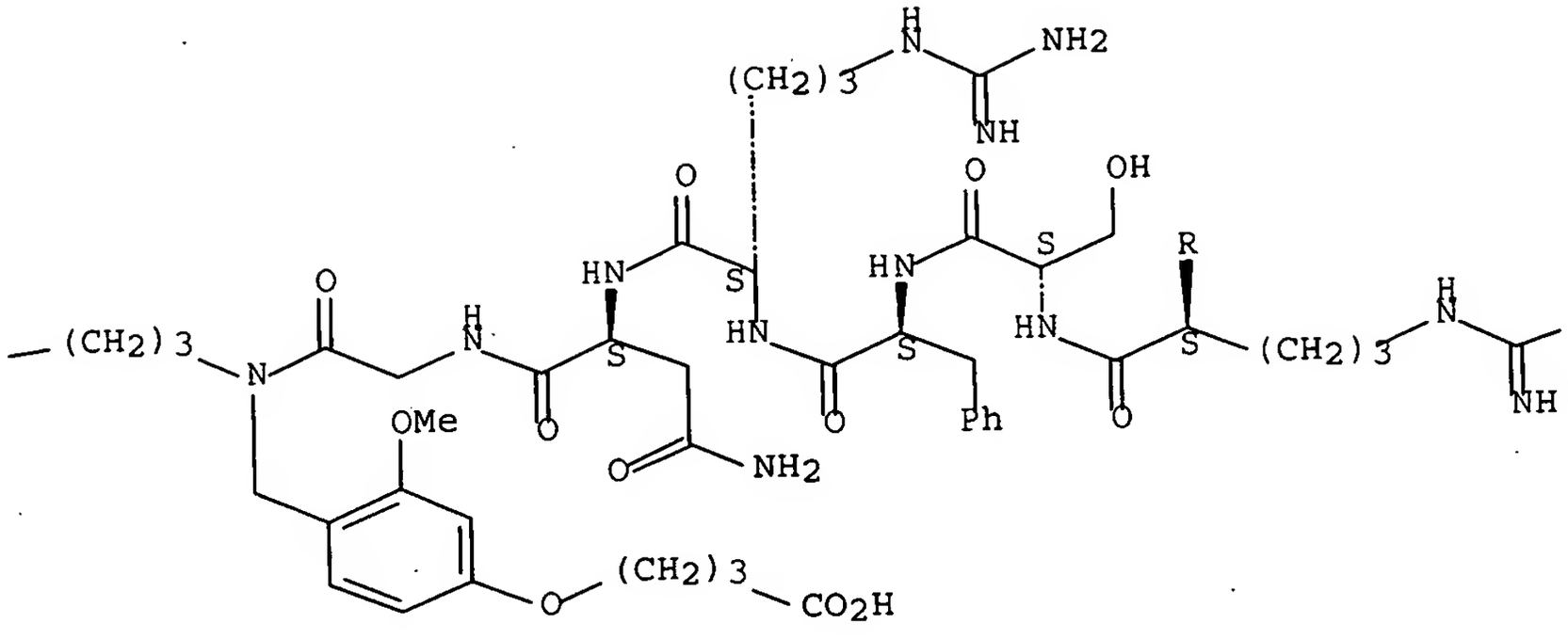

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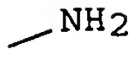

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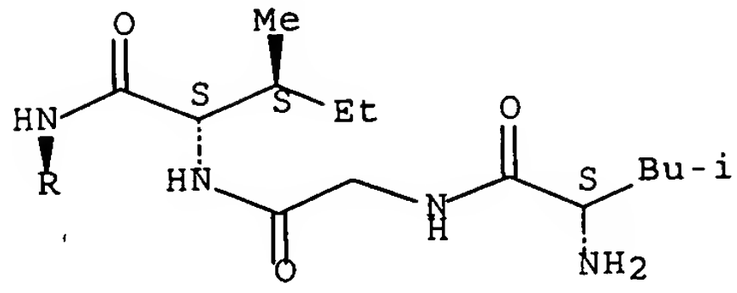

RN 921940-34-3 CAPLUS
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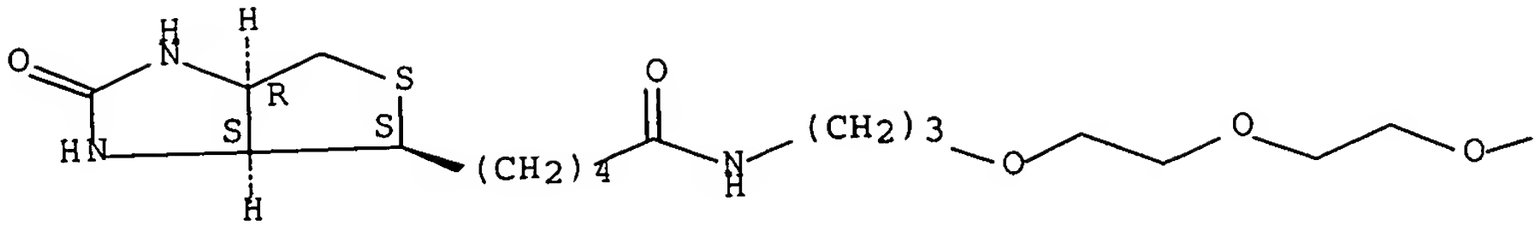

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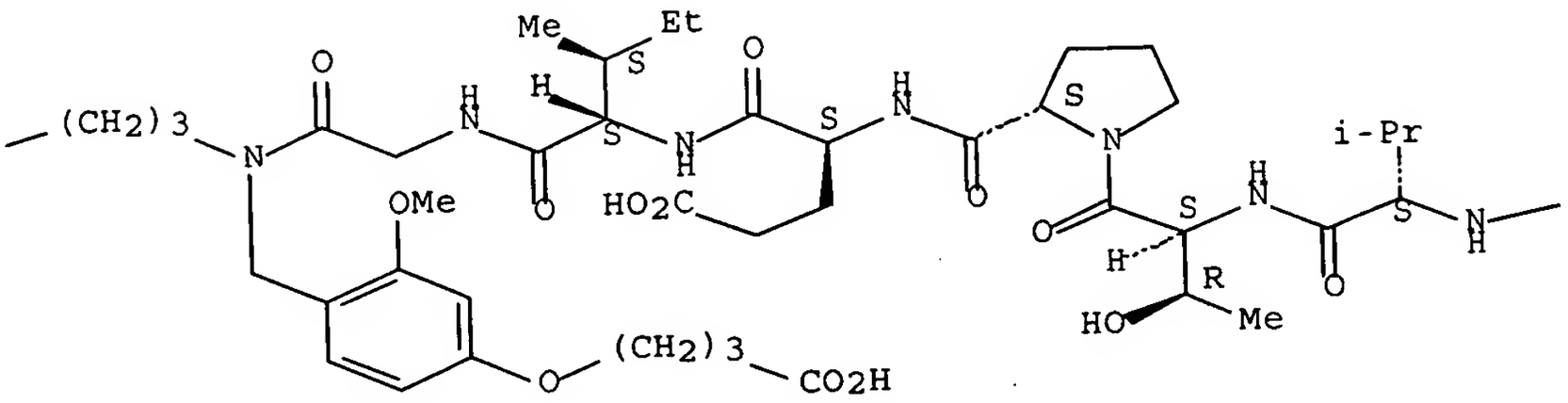

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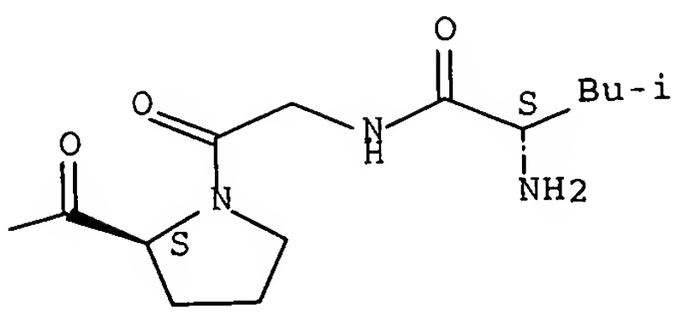

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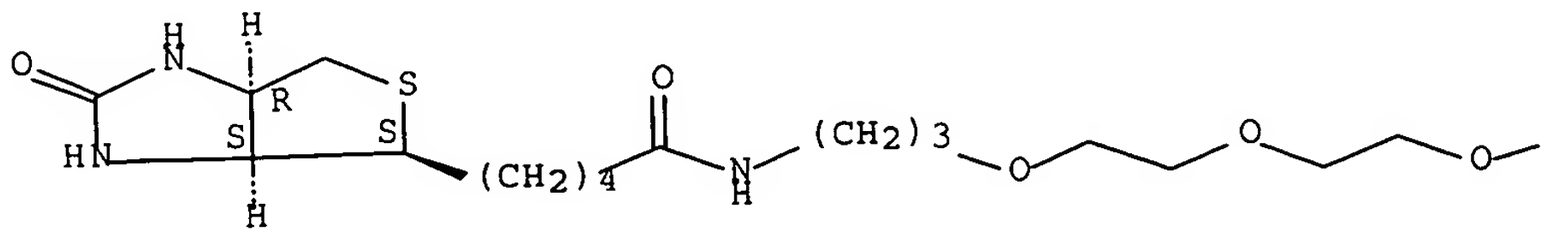

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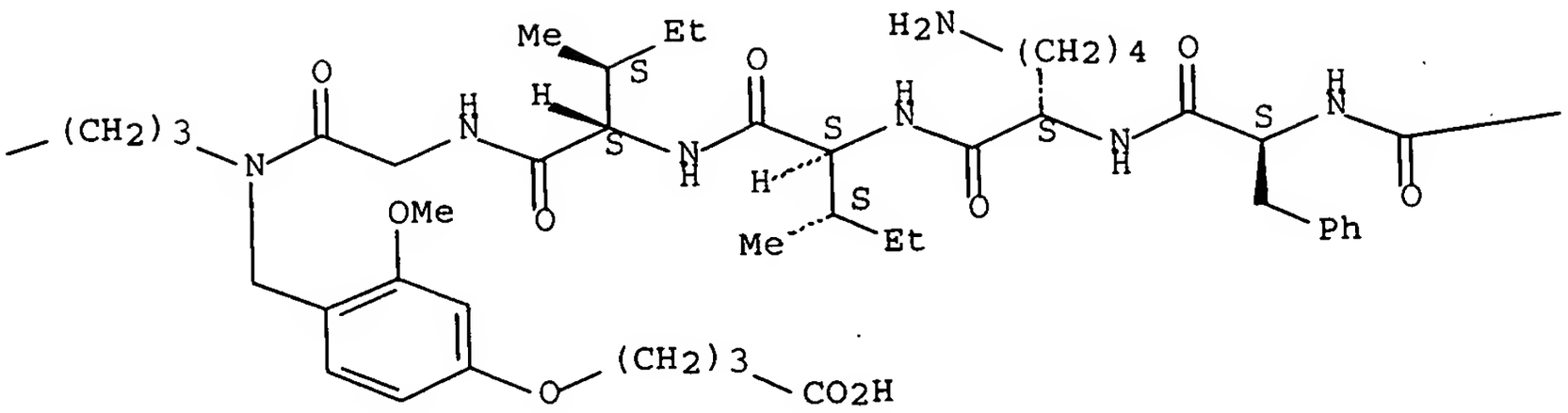

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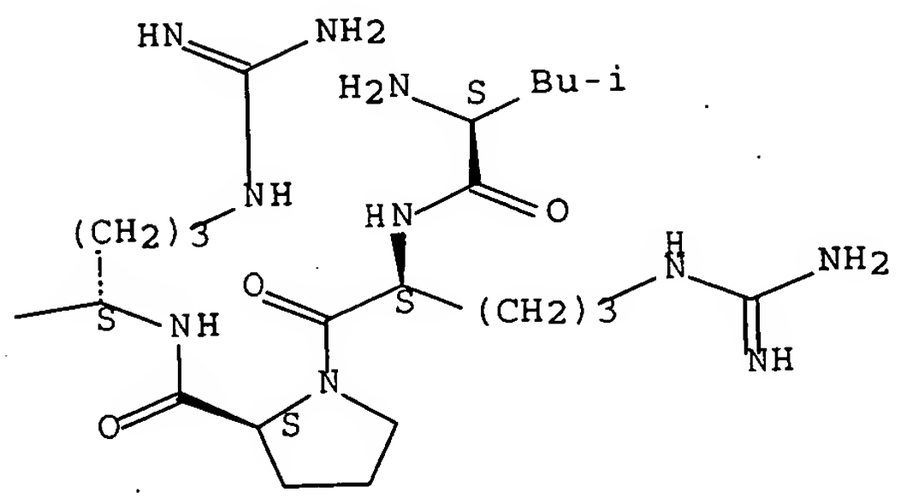

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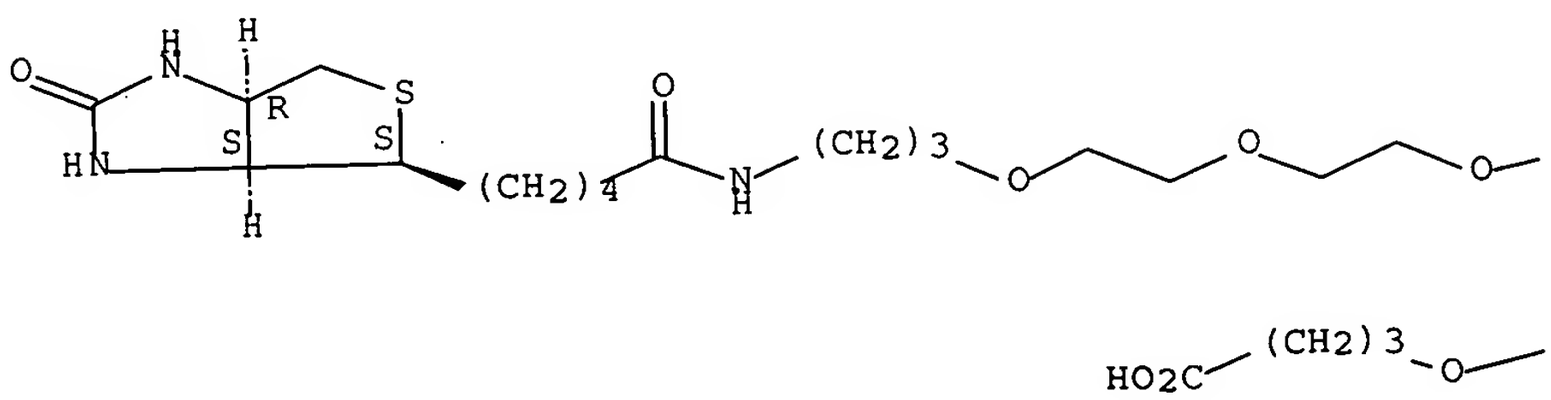

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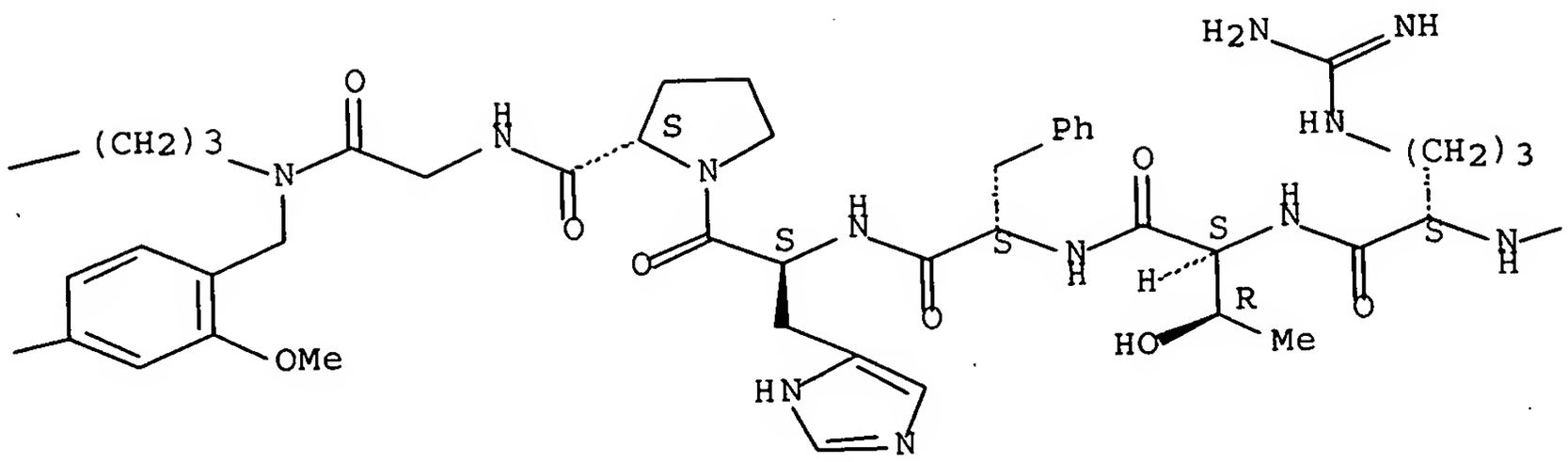

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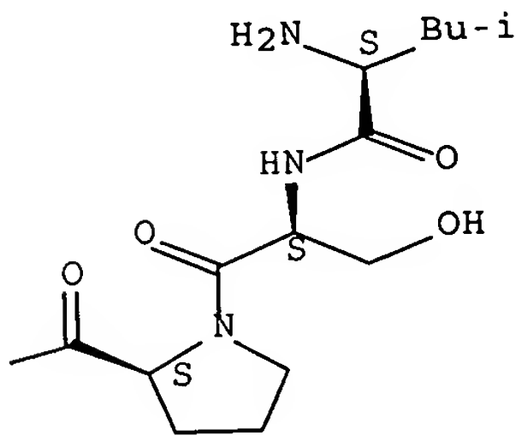

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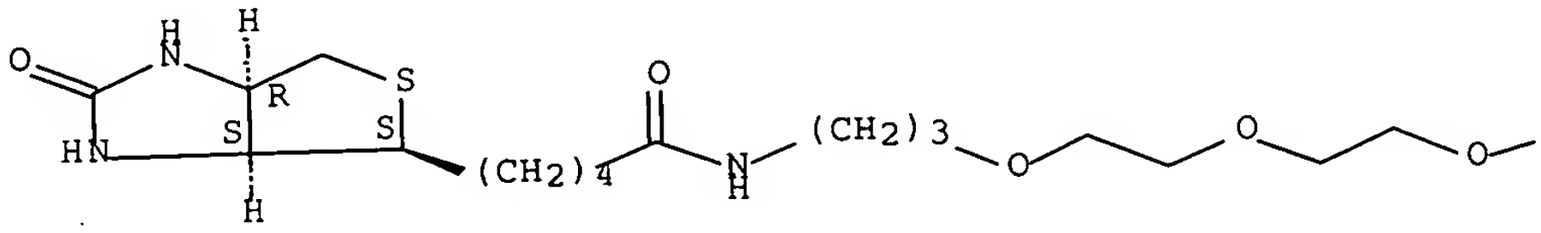

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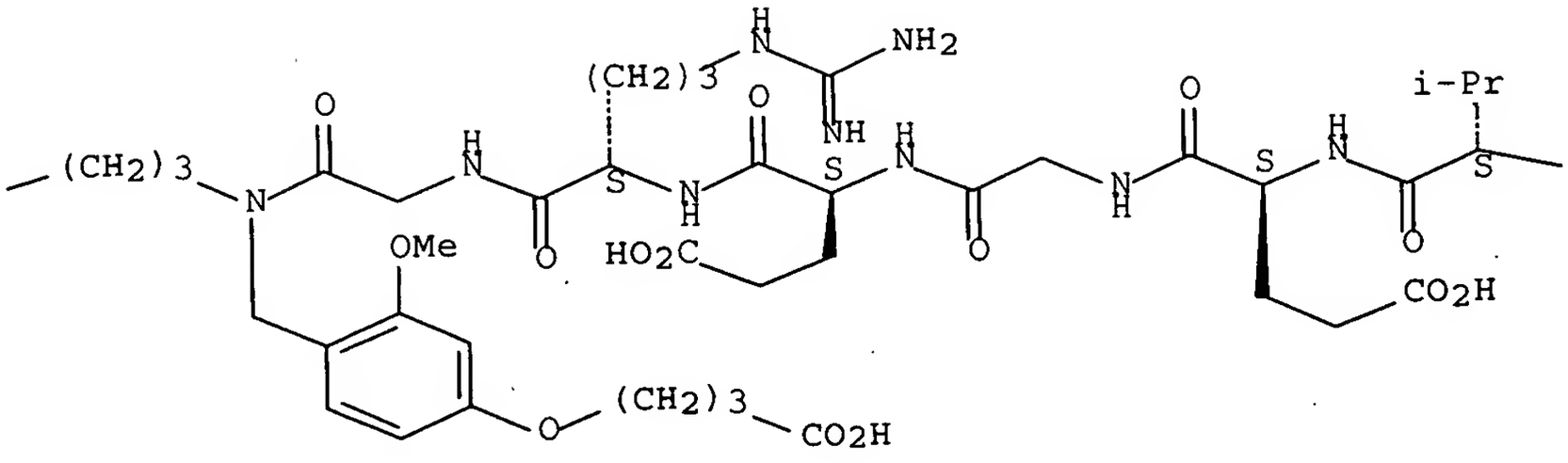

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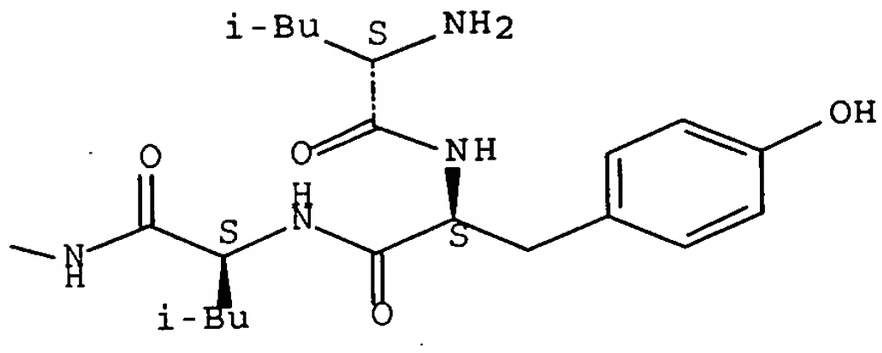

RN 921940-38-7 CAPLUS
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Absolute stereochemistry.

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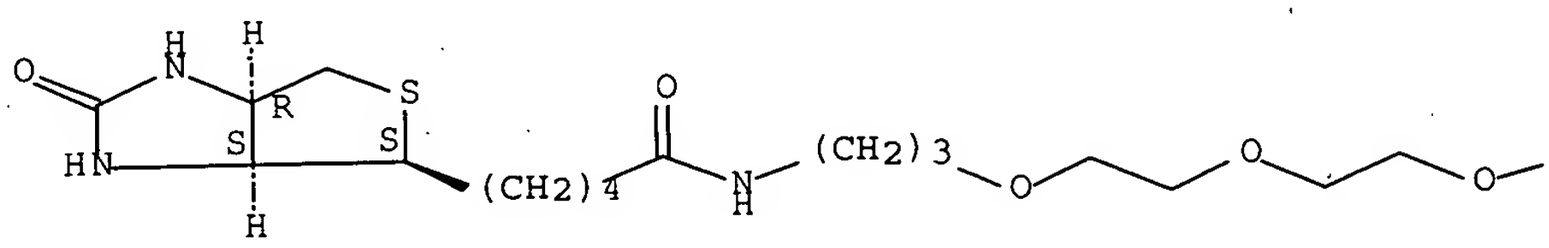

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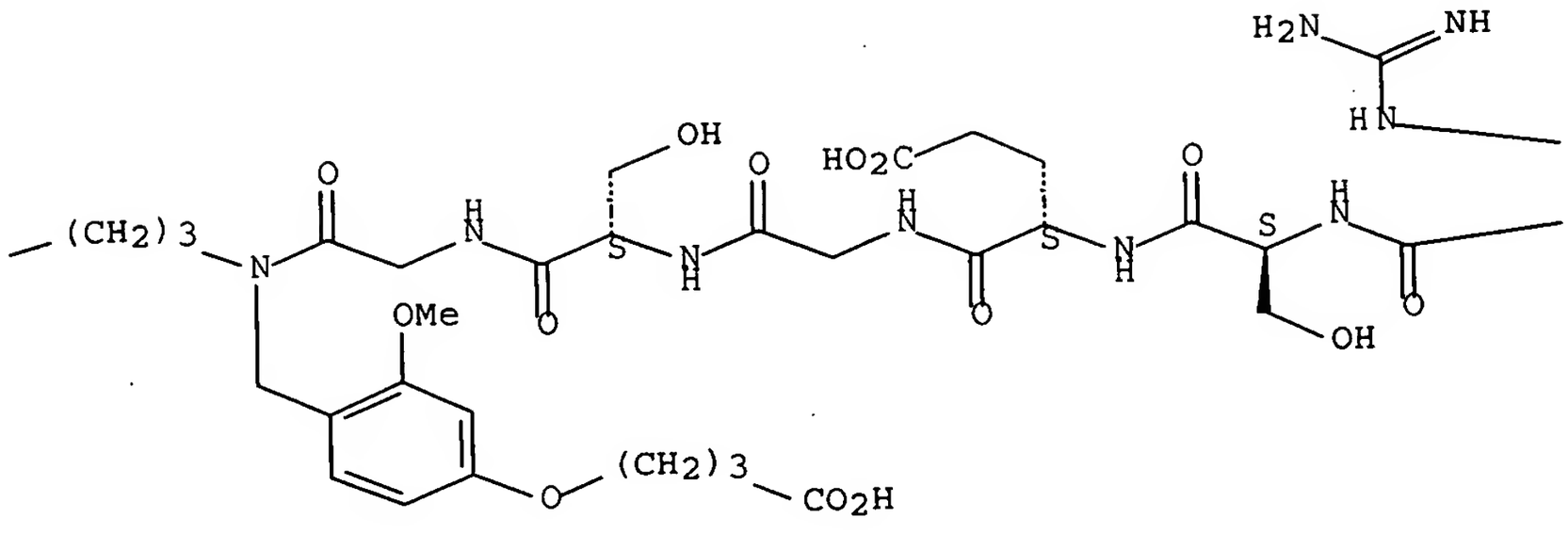

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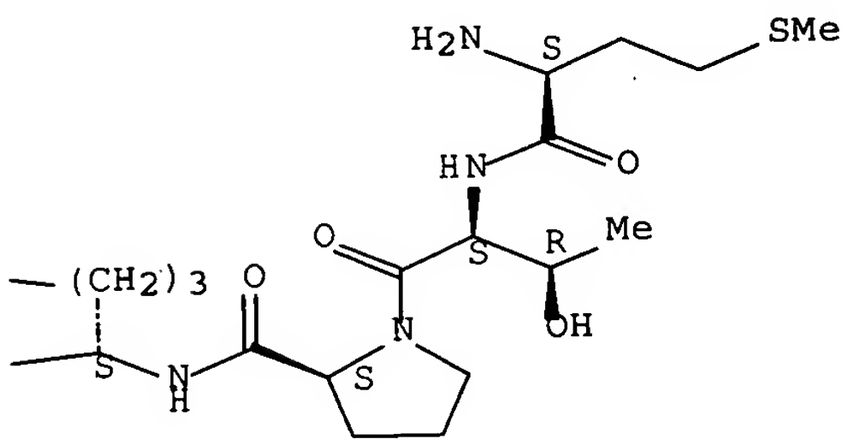

RN 921940-39-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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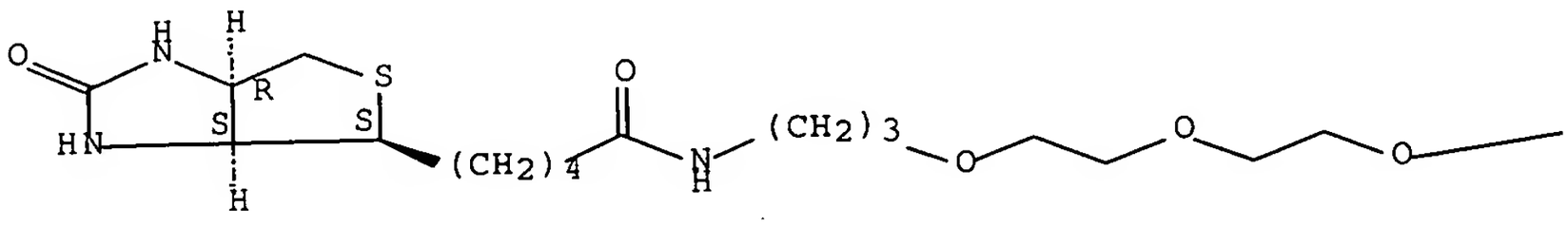

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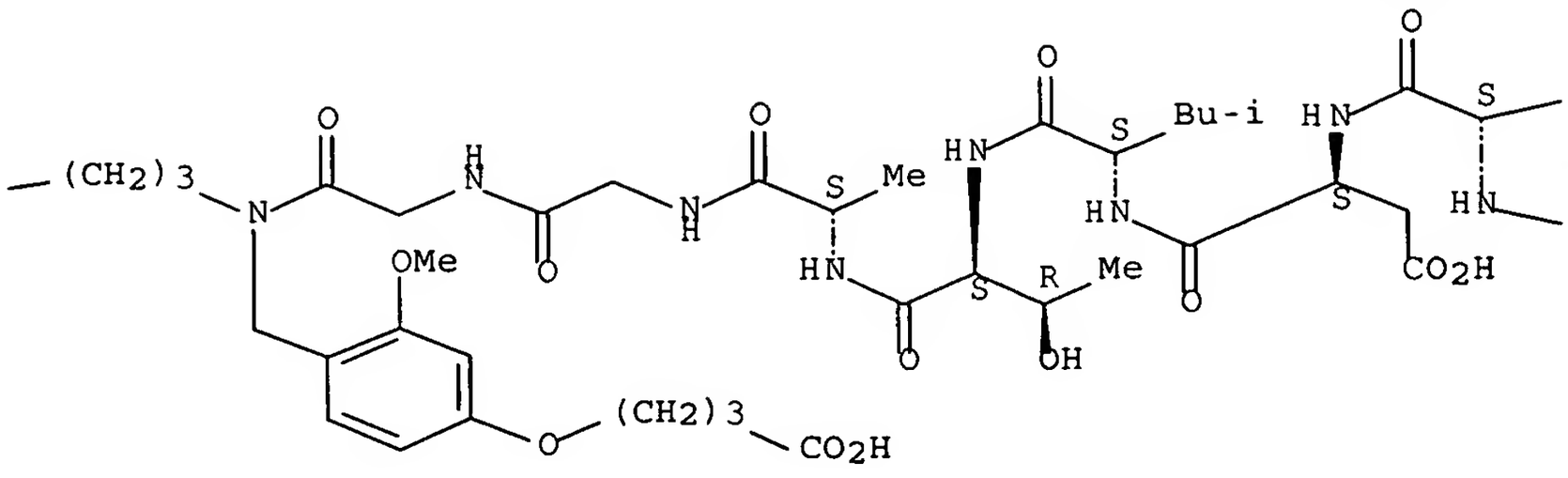

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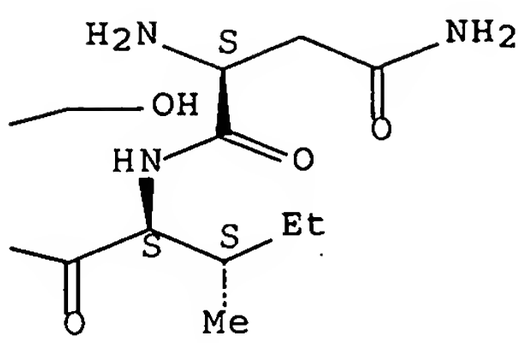
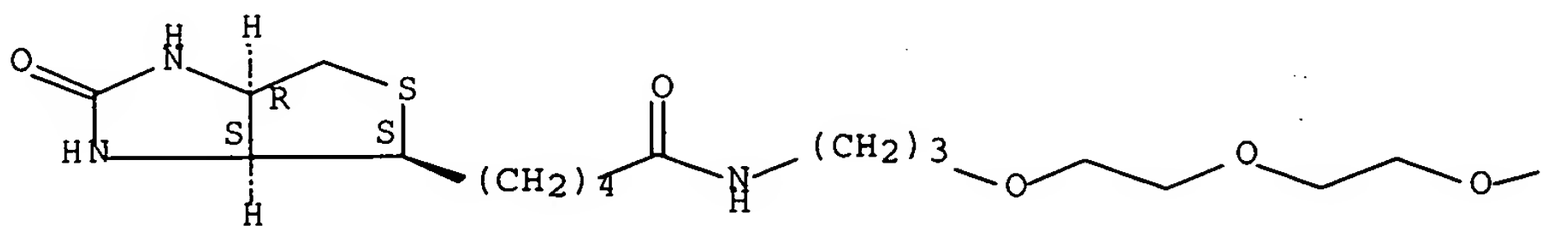


RN 921940-40-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

PAGE 1-A



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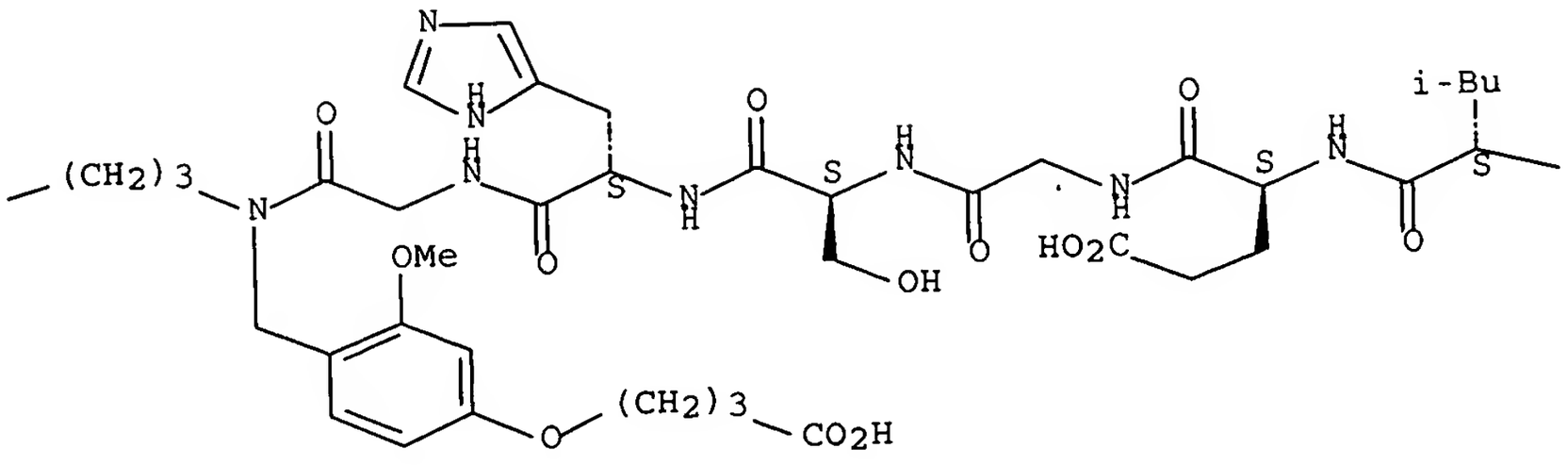

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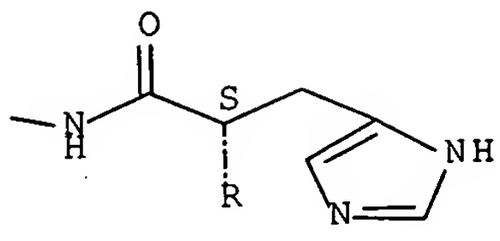

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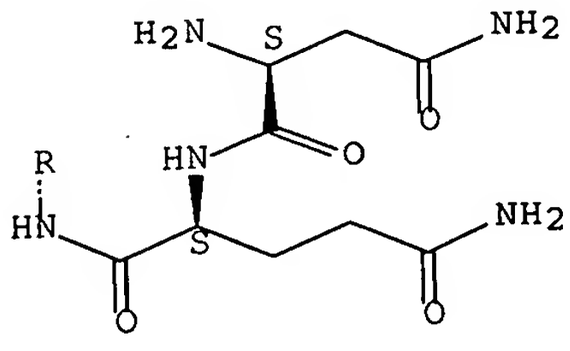

RN 921940-41-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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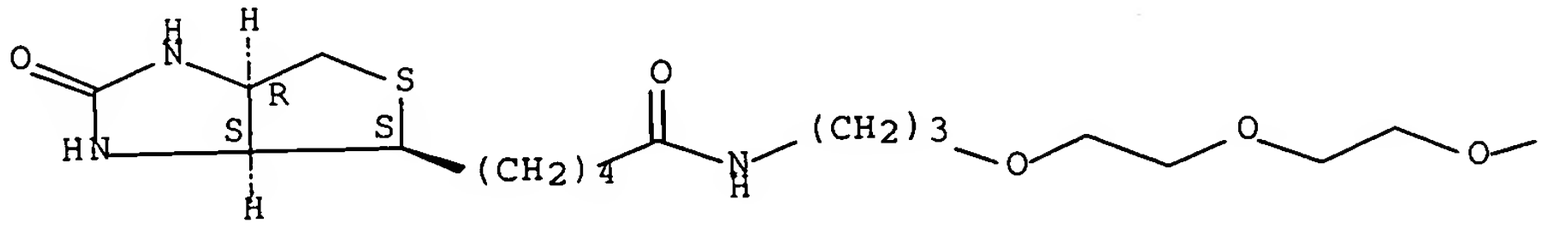

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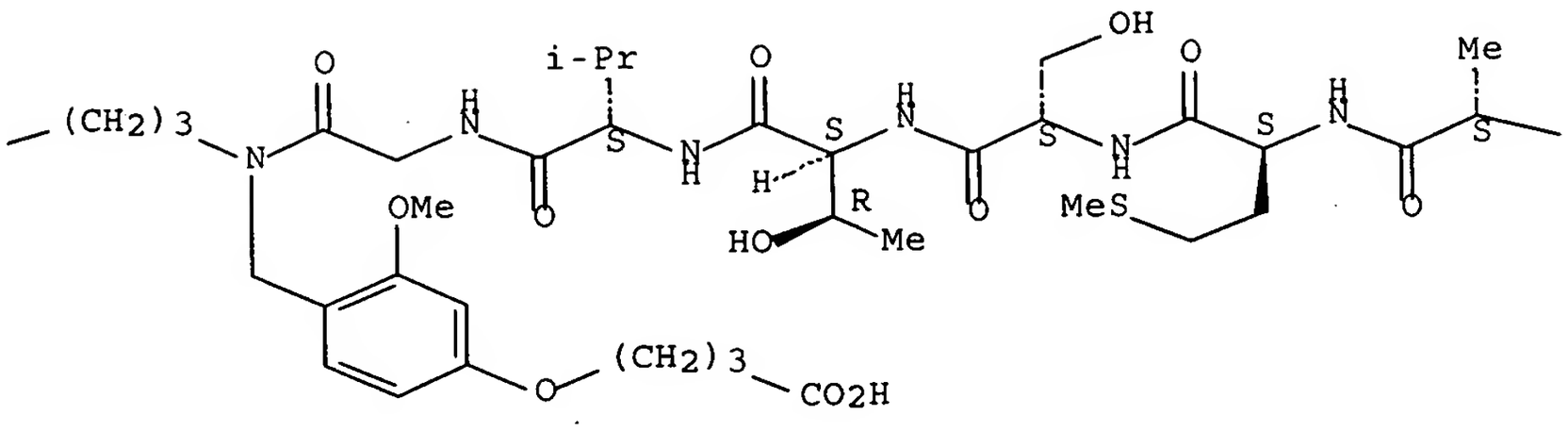

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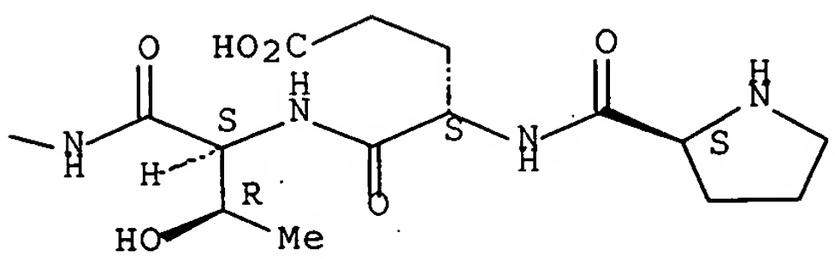
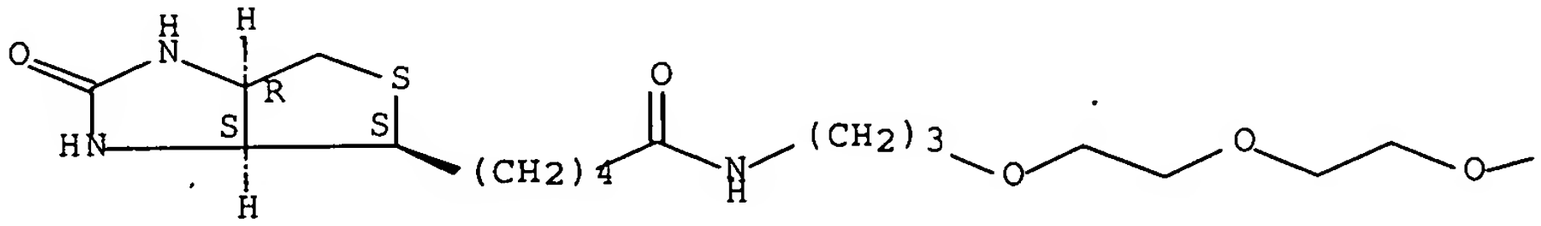


RN 921940-42-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

PAGE 1-A



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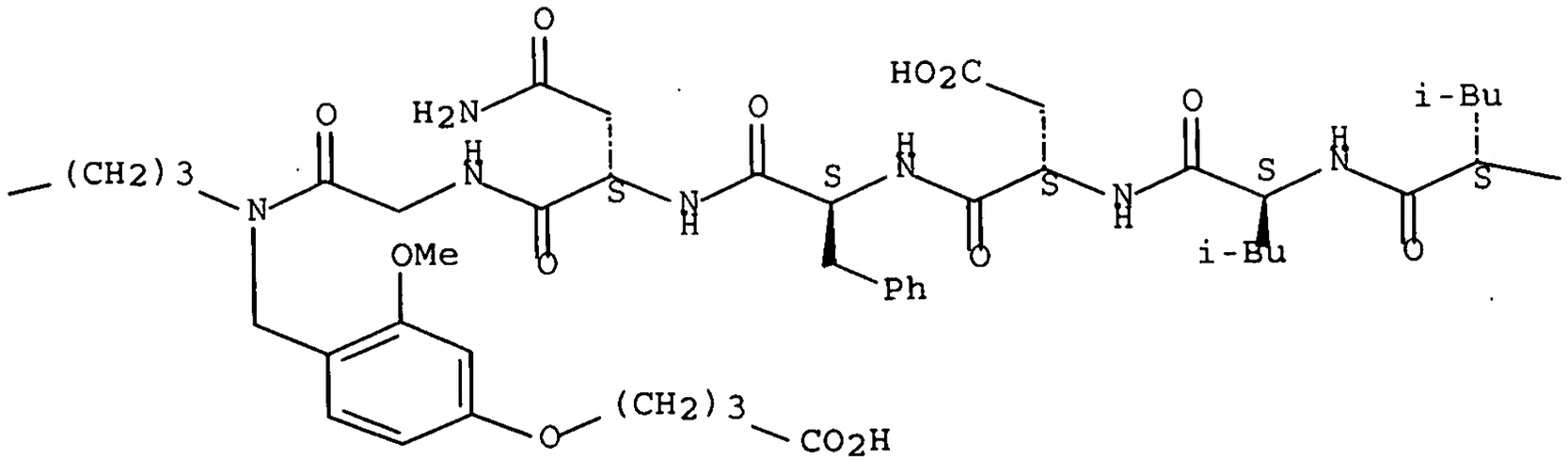

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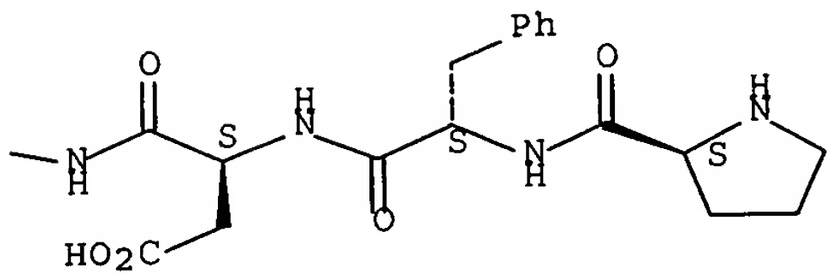

RN 921940-43-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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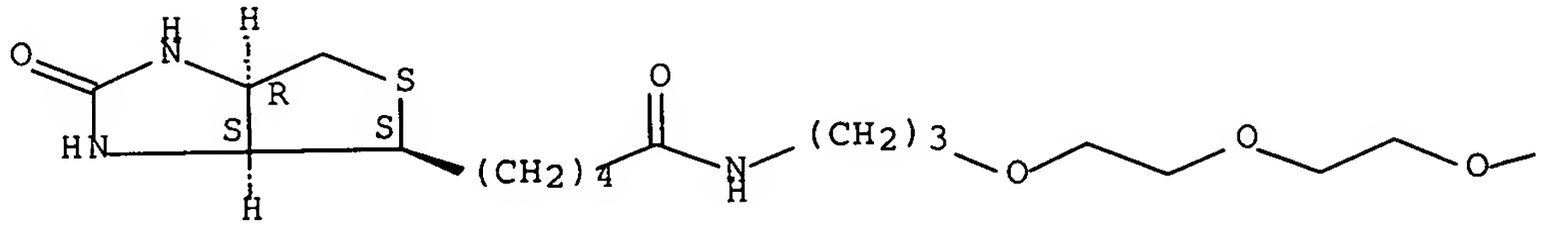

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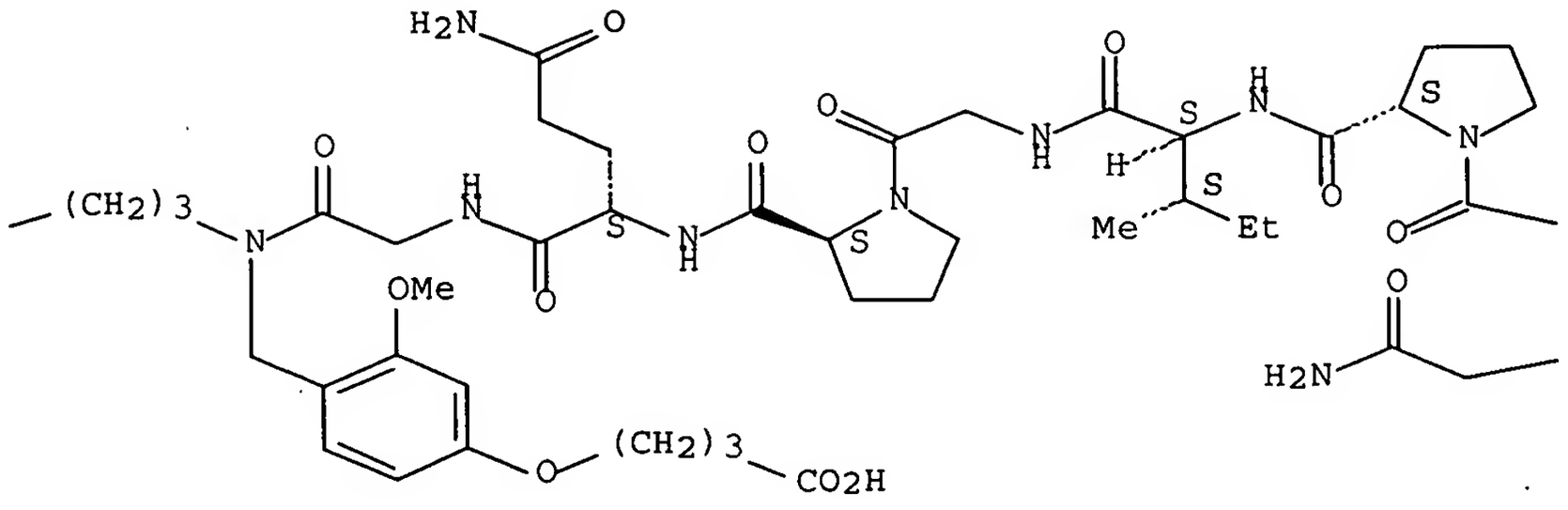

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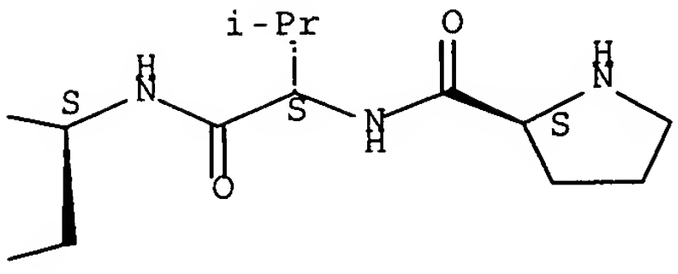

RN 921940-44-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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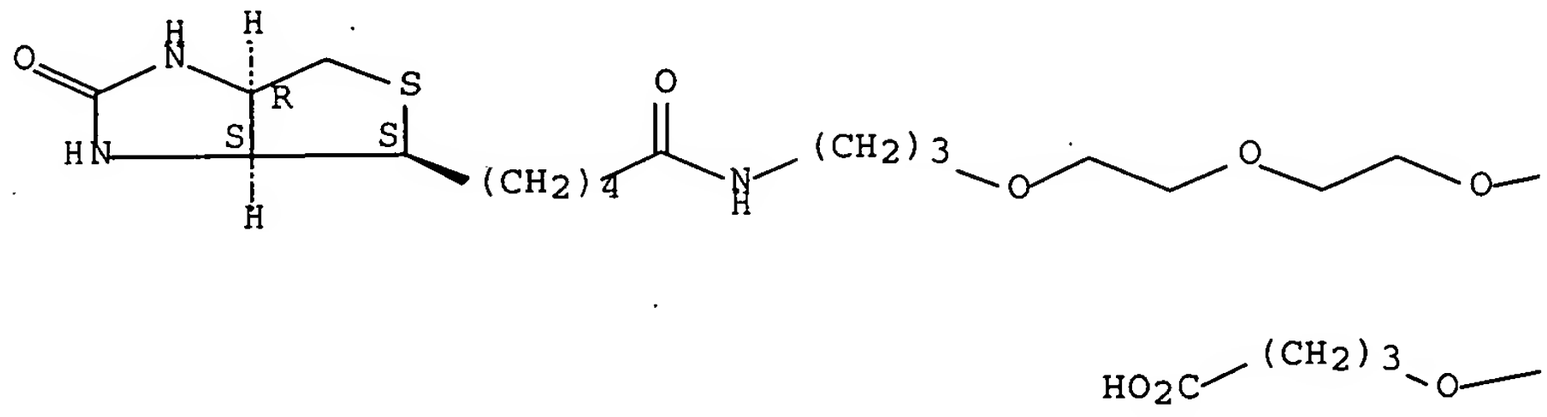

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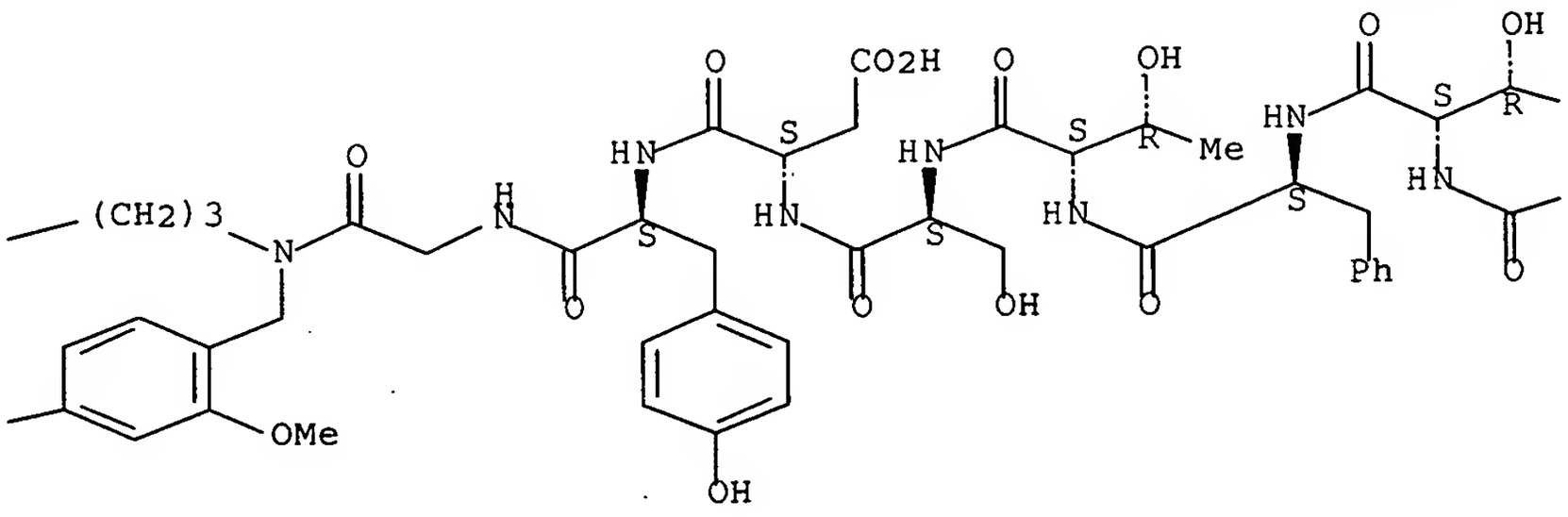

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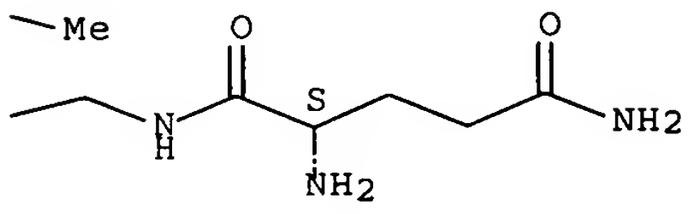

RN 921940-45-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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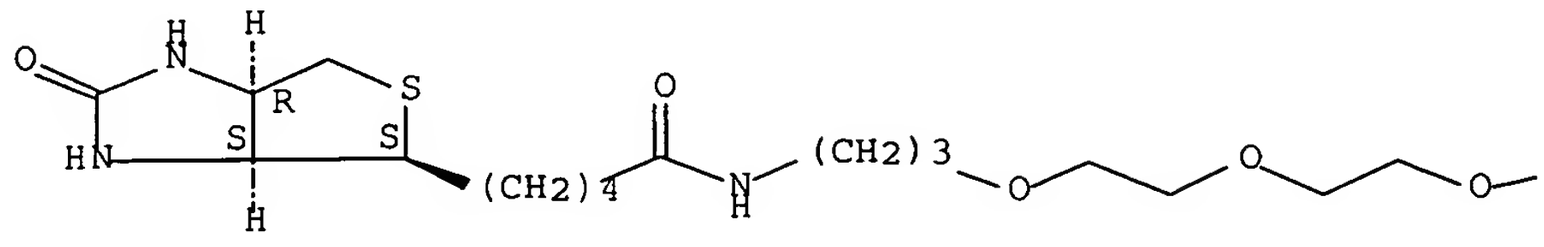

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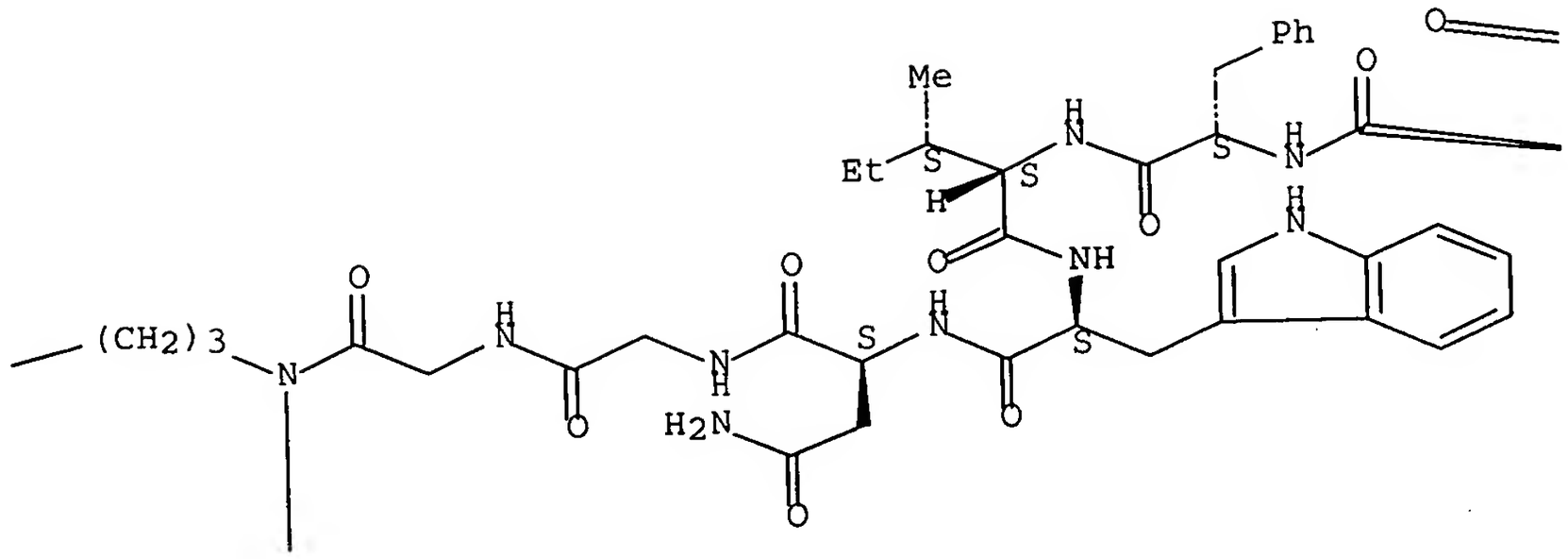

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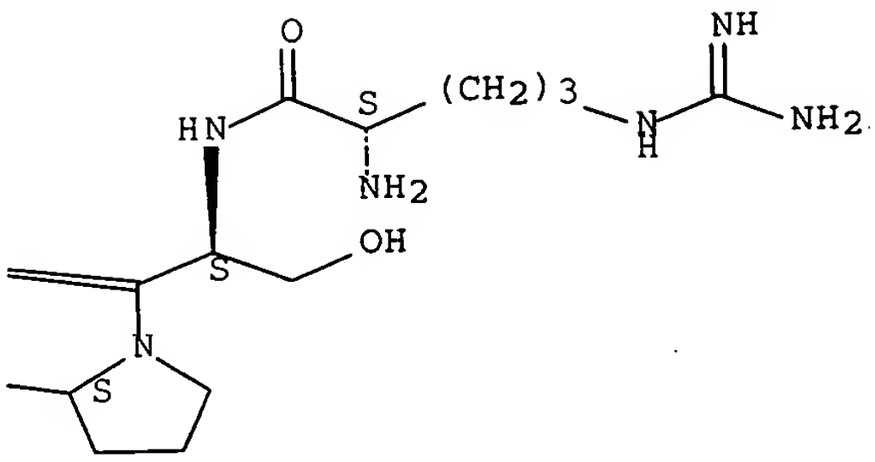

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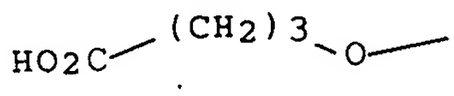

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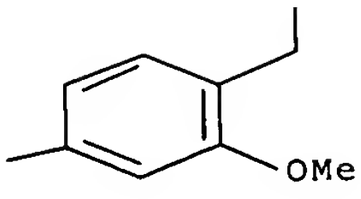

RN 921940-46-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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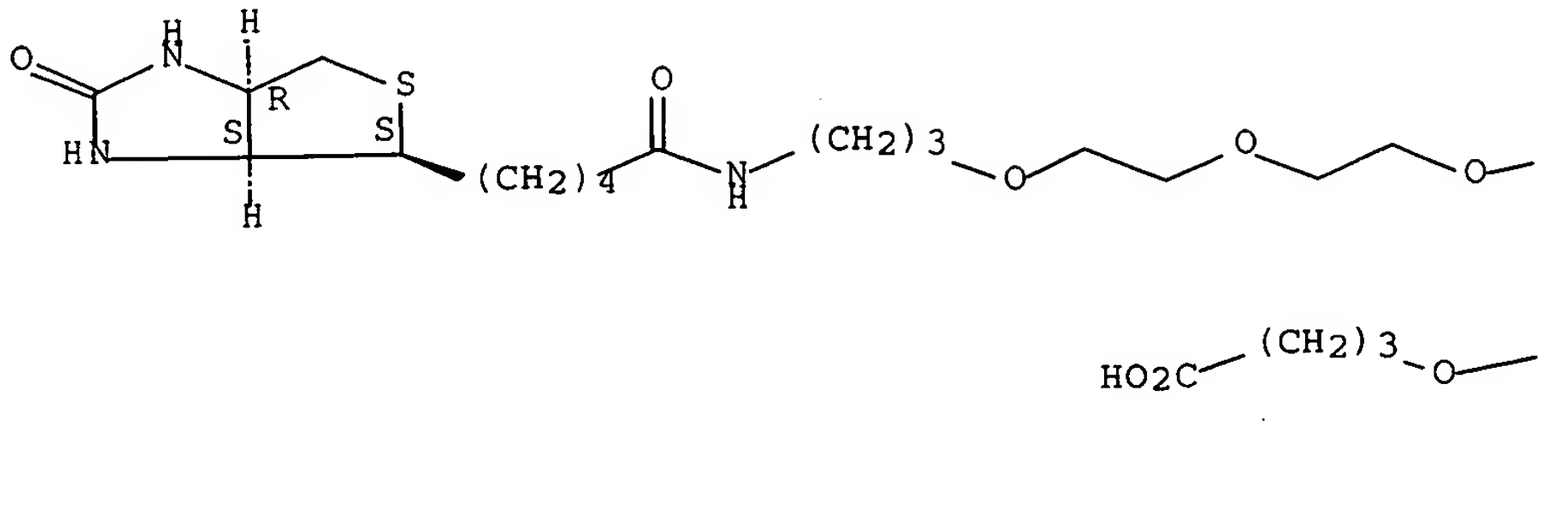

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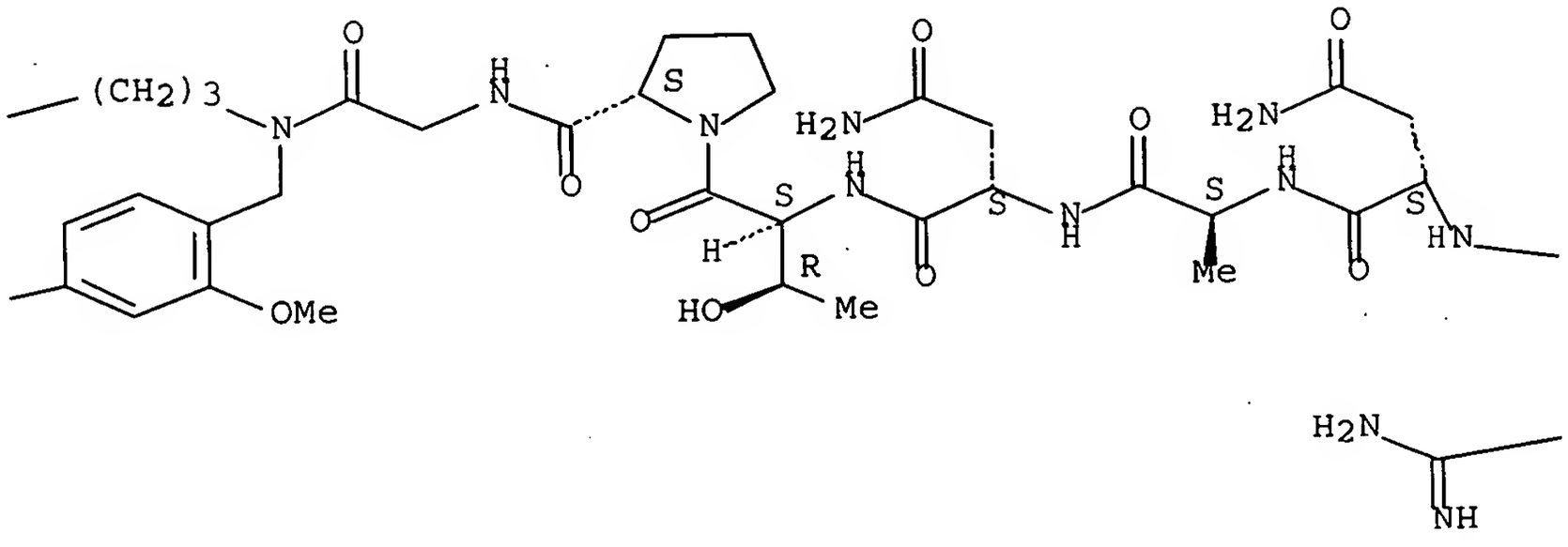

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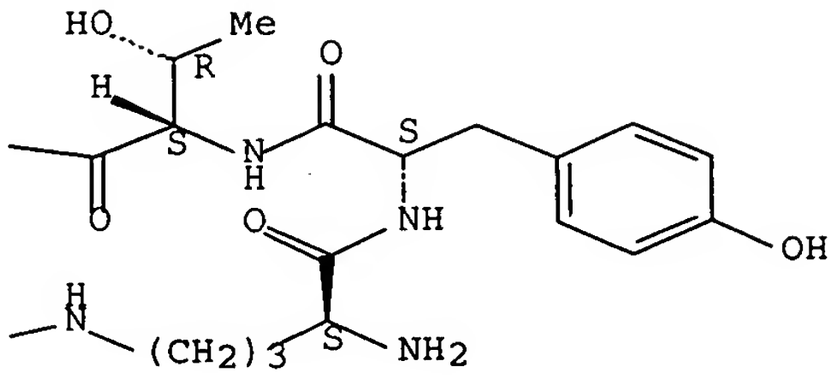

RN 921940-47-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

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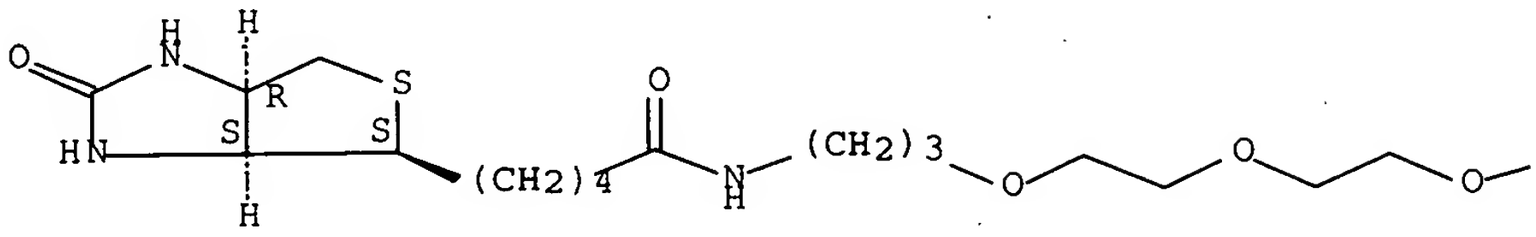

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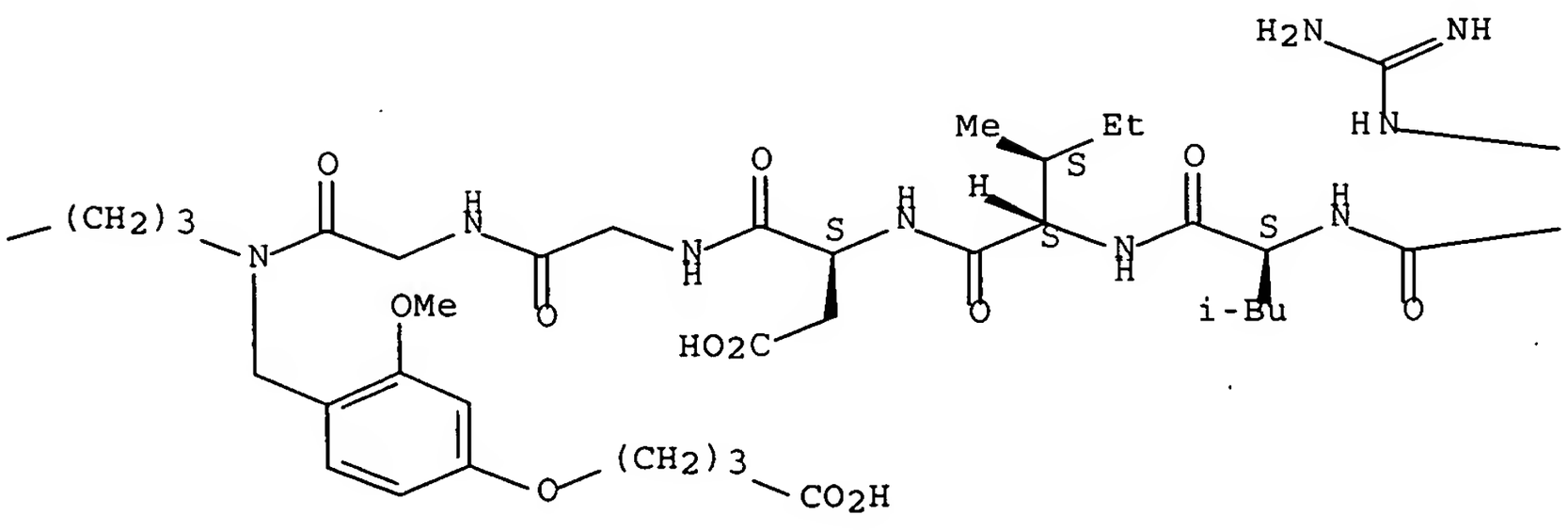

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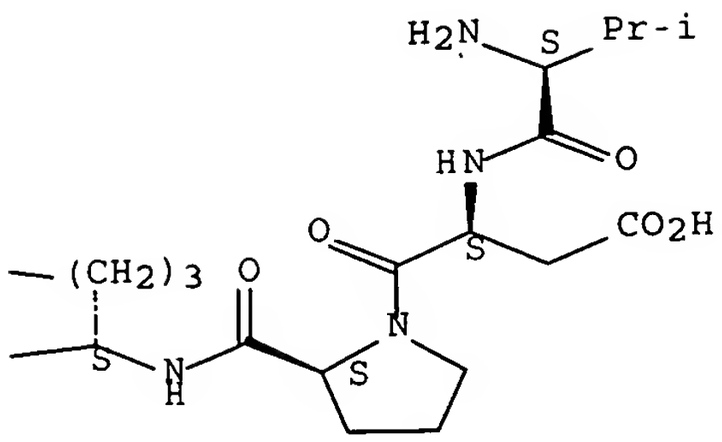
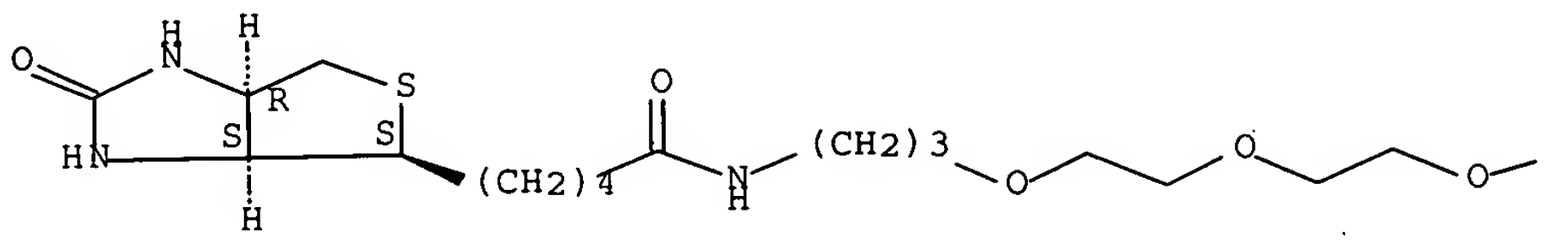


RN 921940-48-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

PAGE 1-A



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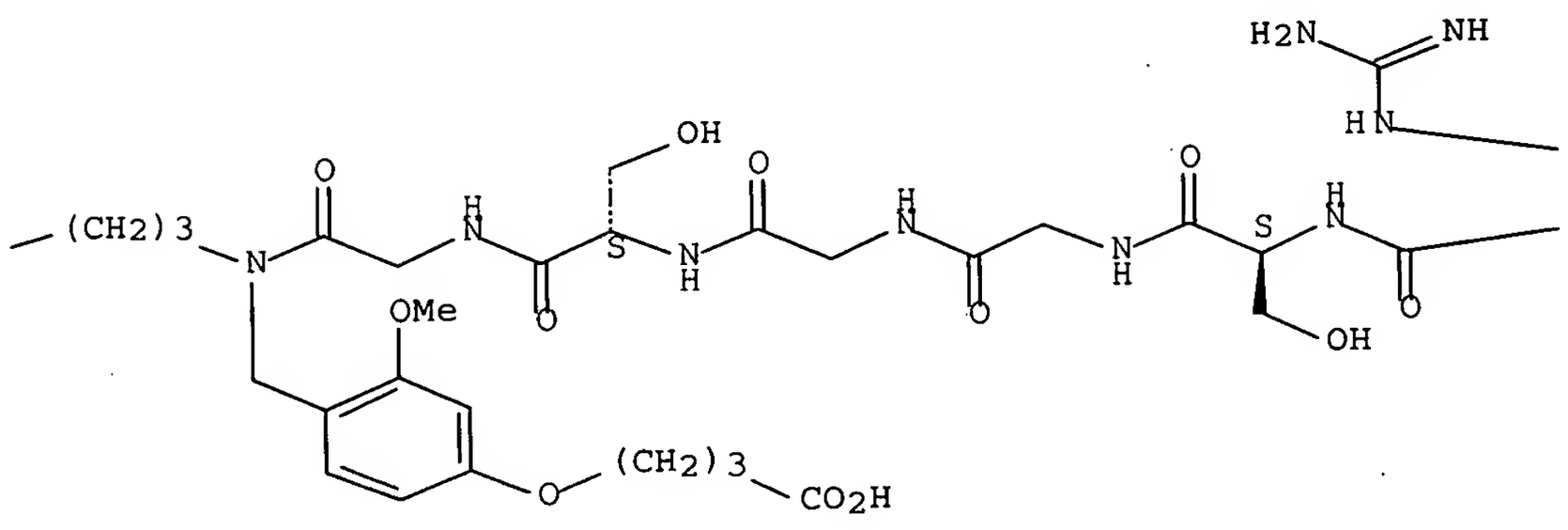

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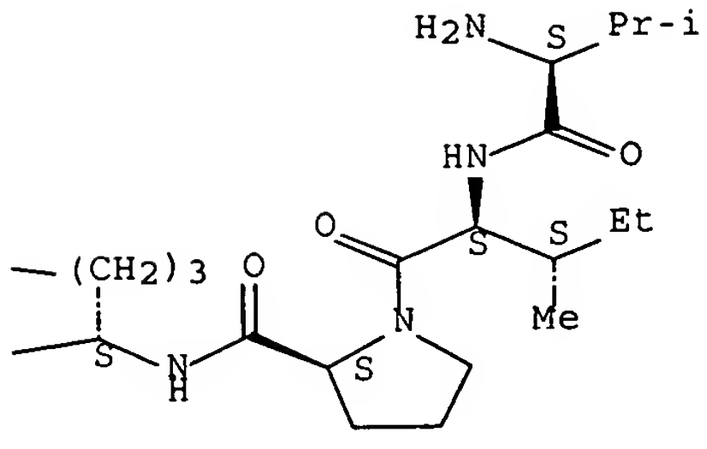
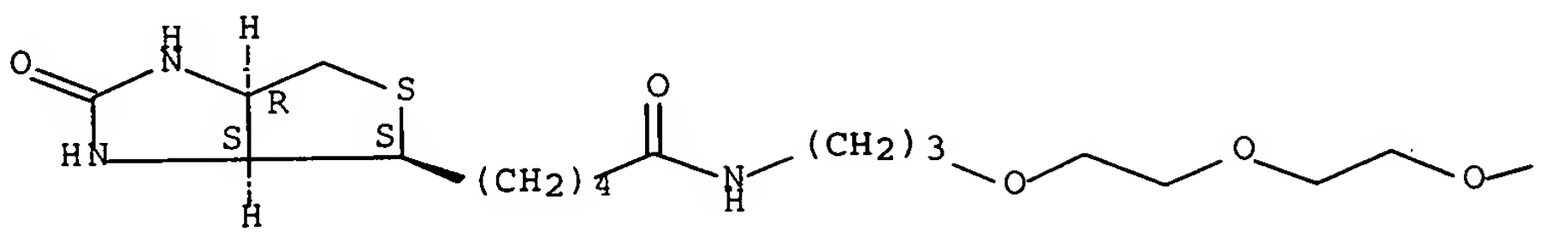


RN 921940-49-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED
Absolute stereochemistry.

PAGE 1-A



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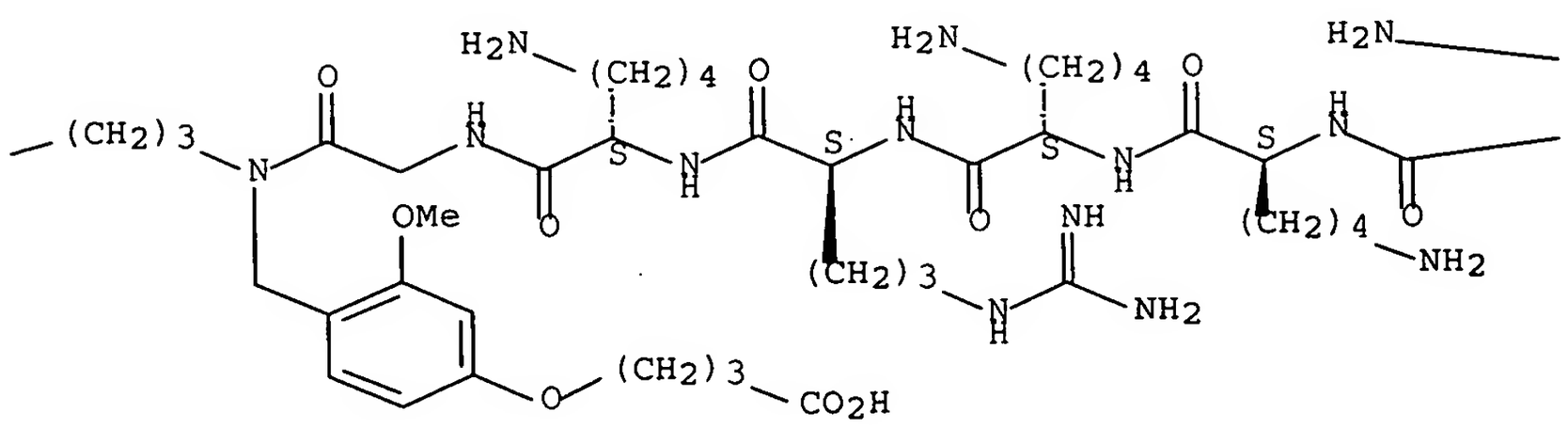
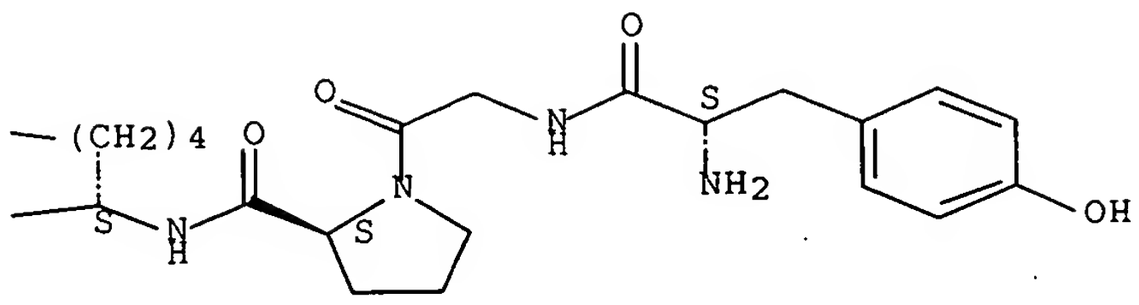




REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

NOT PRIOR ART

L15 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:87255 CAPLUS Full-text
DOCUMENT NUMBER: 144:331679
TITLE: Orthogonally Protected Cyclo-β-tetrapeptides as Solid-Supported Scaffolds for the Synthesis of Glycoclusters
AUTHOR(S): Virta, Pasi; Karskela, Marika; Loennberg, Harri
CORPORATE SOURCE: Department of Chemistry, University of Turku, Turku, FIN-20014, Finland
SOURCE: Journal of Organic Chemistry (2006), 71(5), 1989-1999
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 144:331679

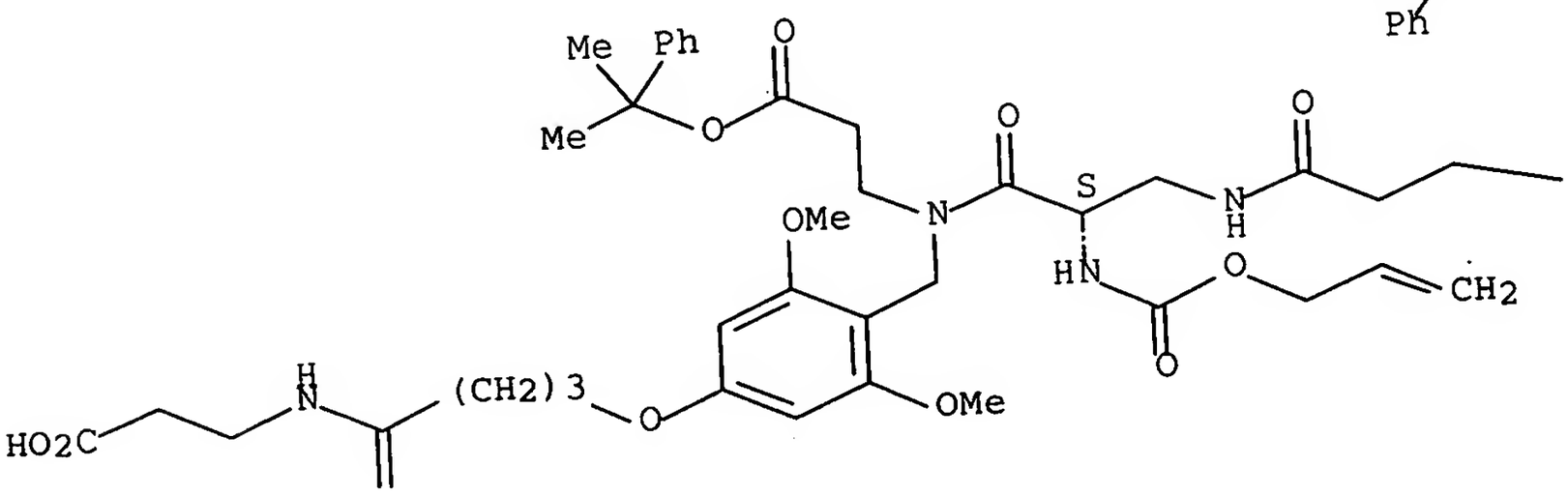
AB Two novel peptide scaffolds, viz. cyclo[(Nα-Alloc)Dpr- β-Ala-(Nα-Fmoc)Dpr-β-Ala] and cyclo[(Nα-Alloc)Dpr- α-azido-β-aminopropanoyl-(Nα-Fmoc)Dpr-β-Ala], composed of orthogonally protected 2,3-diaminopropanoyl (Dpr) and β-alanyl residues, have been described. Fmoc chemical on a backbone amide linker derivatized resin has been used for the chain assembly. Selective removal of the 4-methyltrityl (Mtt) and 1-methyl-1-phenylethyl protections (PhiPr) exposes the β-amino and carboxyl terminus, resp., and on-resin cyclization then gives the desired orthogonally protected cyclo-β-tetrapeptides. The α-amino groups, bearing the Fmoc and Alloc protections and the azide mask, allow stepwise orthogonal derivatization of these solid-supported cyclo-β-tetrapeptide cores. This has been demonstrated by attachments of various sugar units [viz., acetyl- or toluoyl-protected carboxymethyl α-D-glycopyranosides and Me 6-O-(4-nitrophenoxycarbonyl)-α-D-glycopyranosides] to obtain diverse di- and trivalent glycoclusters. Acidolytic release (TFA) from the support, followed by conventional NaOMe-catalyzed transesterification or hydrazine-induced acyl substitution in DMF (41 and 42), gives the fully deprotected clusters as final products.

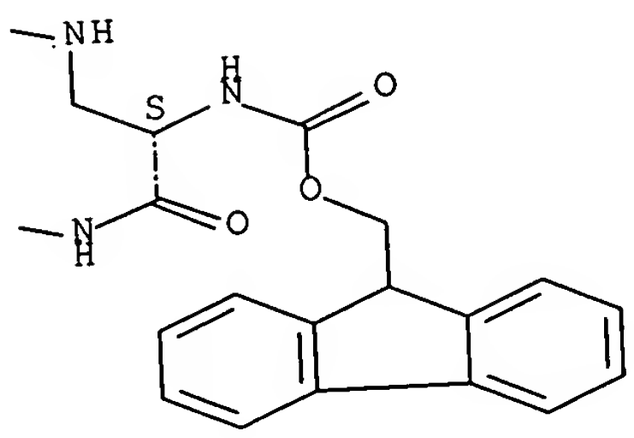
IT 880637-91-2DP, polymer supported 880637-92-3DP, polymer supported 880637-93-4DP, polymer supported 880637-94-5DP, polymer supported
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(orthogonally protected cyclo-β-tetrapeptides as solid-supported scaffolds for synthesis of glycoclusters)

RN 880637-91-2 CAPLUS
CN β-Alanine, N-[(9H-fluoren-9-ylmethoxy)carbonyl]-3-[[(4-methylphenyl)diphenylmethyl]amino]-L-alanyl-β-alanyl-(2S)-2-[[(2-propenyloxy)carbonyl]amino]-β-alanyl-N-[[4-[4-[(2-carboxyethyl)amino]-

4-oxobutoxy]-2,6-dimethoxyphenyl]methyl]-, 41-(1-methyl-1-phenylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



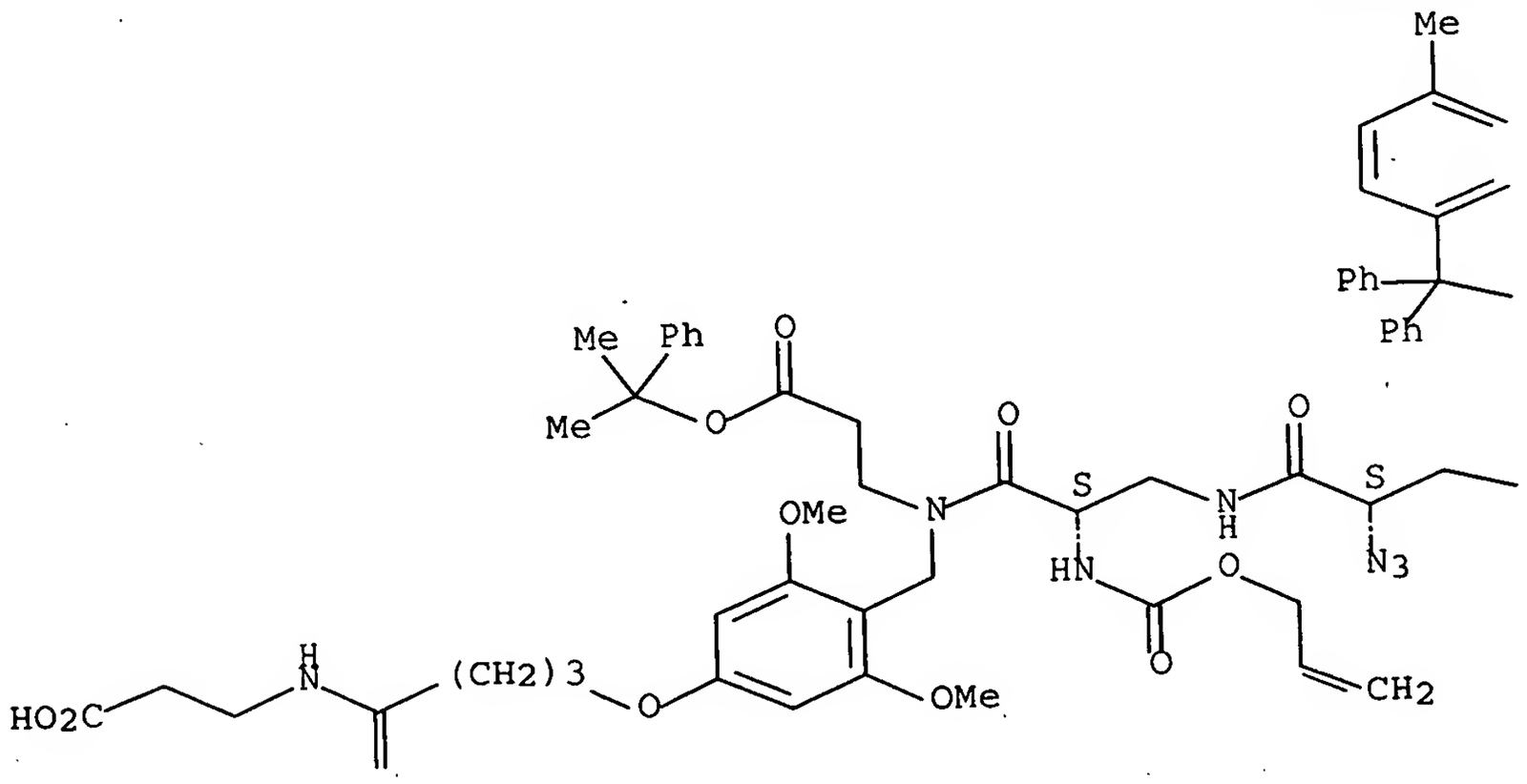


RN 880637-92-3 CAPLUS

CN β-Alanine, N-[(9H-fluoren-9-ylmethoxy)carbonyl]-3-[[(4-methylphenyl)diphenylmethyl]amino]-L-alanyl-(2S)-2-azido-β-alanyl-(2S)-2-[[(2-propenyloxy)carbonyl]amino]-β-alanyl-N-[[4-[4-[(2-carboxyethyl)amino]-4-oxobutoxy]-2,6-dimethoxyphenyl]methyl]-, 41-(1-methyl-1-phenylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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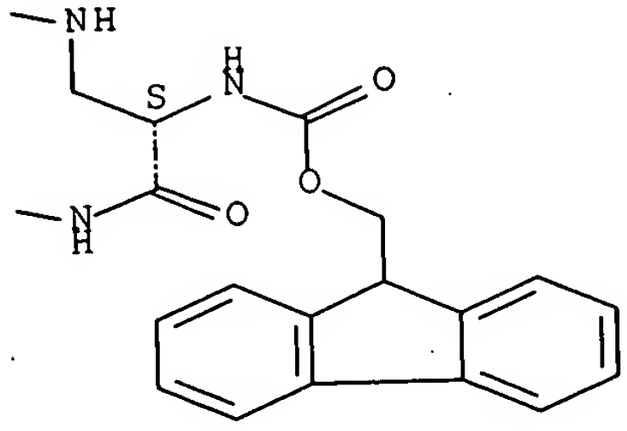
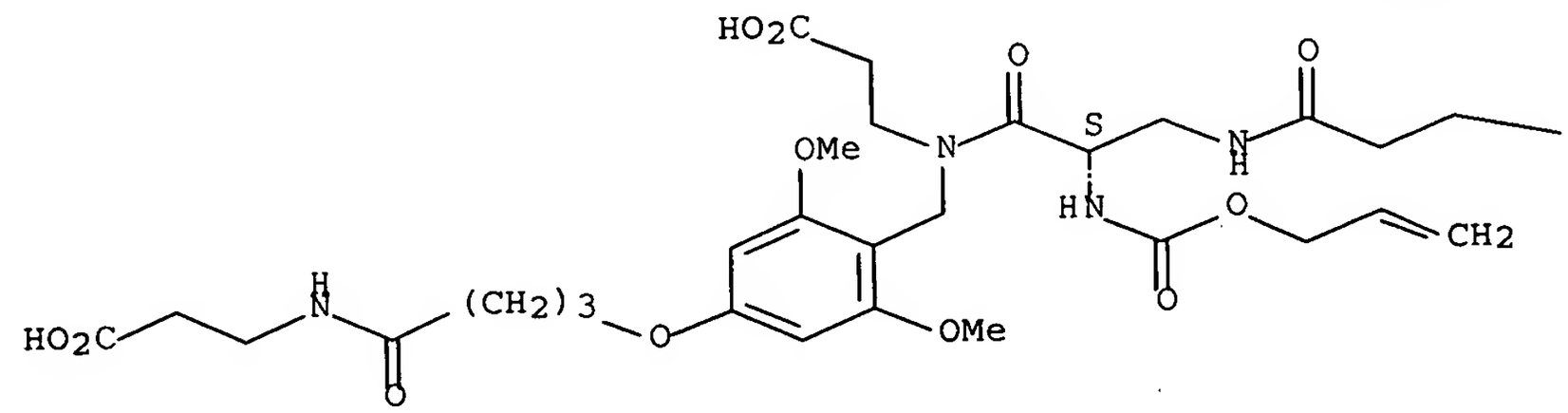


PAGE 2-A

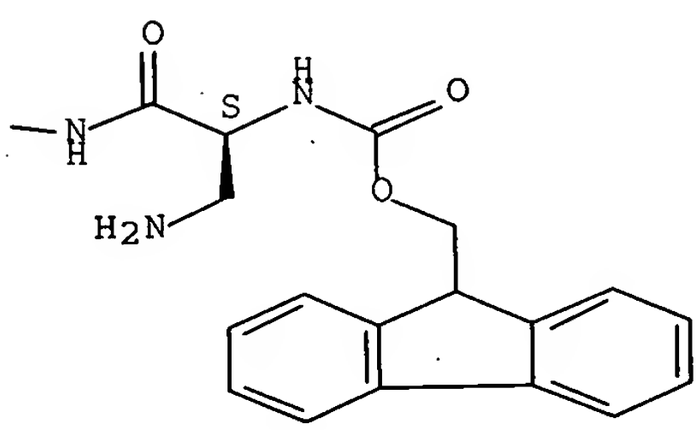
RN 880637-93-4 CAPLUS
CN β-Alanine, 3-amino-N-[(9H-fluoren-9-ylmethoxy)carbonyl]-L-alanyl-β-alanyl-(2S)-2-[[(2-propenyloxy)carbonyl]amino]-β-alanyl-N-[[4-[4-[(2-carboxyethyl)amino]-4-oxobutoxy]-2,6-dimethoxyphenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

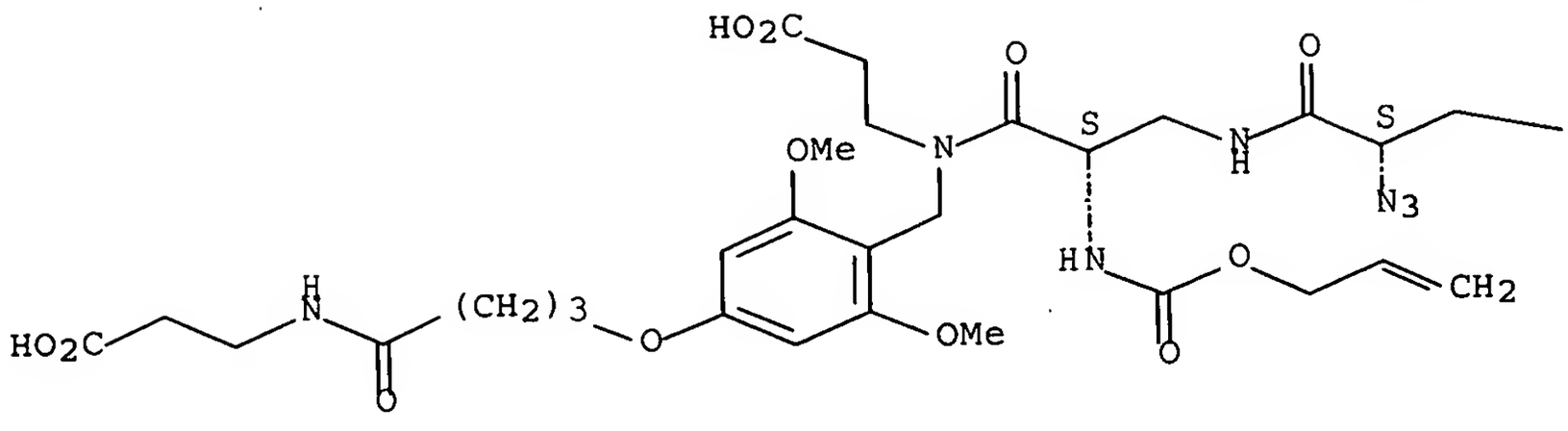


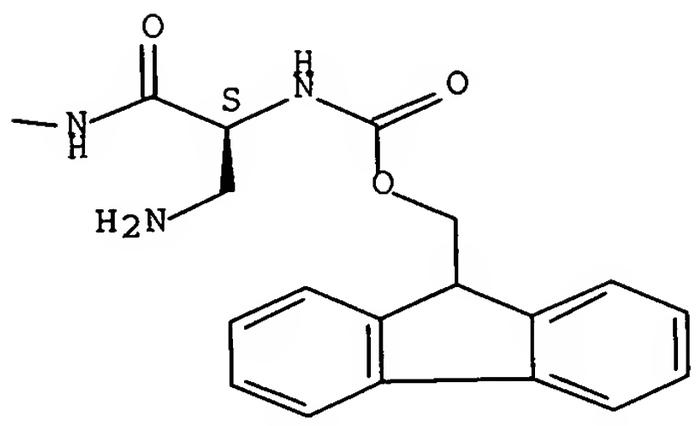
PAGE 1-B



RN 880637-94-5 CAPLUS
CN β-Alanine, 3-amino-N-[(9H-fluoren-9-ylmethoxy)carbonyl]-L-alanyl-(2S)-2-azido-β-alanyl-(2S)-2-[[(2-propenyloxy)carbonyl]amino]-β-alanyl-N-[[4-[4-[(2-carboxyethyl)amino]-4-oxobutoxy]-2,6-dimethoxyphenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

APPLICANTS

ACCESSION NUMBER: 2005:2014 CAPLUS Full-text
DOCUMENT NUMBER: 142:94138
TITLE: Method and building blocks for preparing C-terminally labeled peptides
INVENTOR(S): White, Peter David; Beythien, Jorg Karl Wilheim
PATENT ASSIGNEE(S): UK
SOURCE: U.S. Pat. Appl. Publ., 21 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004265949	A1	20041230	US 2003-607175	20030626
			US 2003-607175	20030626

PRIORITY APPLN. INFO.:
OTHER SOURCE(S): MARPAT 142:94138

AB The invention relates to a solid-phase method for preparing C-terminally labeled peptides and building blocks to be used in this synthesis. The building blocks have formula A-N(Lm-B)Kn-C, where A is a functionality for the attachment to a solid support or a functionality already comprising a solid support, B is a functionality for the attachment of one or more amino acids or peptides or a functionality already comprising one or more amino acids or

peptides, C is a functionality for the attachment of one or more labels or a functionality already comprising one or more labels, K, L are independently (un)substituted alkyl chains with at least two C-atoms (one or more non-neighboring C-atoms may be substituted by O, NH, alkyl- or arylimino, S, CO, an ester or amide group and/or neighboring C-atoms may be connected via a double or triple bond), and m, n are 0 or 1 with m + n ≥ 1. Thus, N-biotinyl-N'-Fmoc-ethylenediamine-MPB-AM-resin [MPB = [4-(3-carboxypropoxy)-2-methoxyphenyl]methyl; Fmoc = fluorenylmethoxycarbonyl] was prepared and applied to the synthesis of H-Asp-Glu-Val-Asp-Ala-Arg-NHCH2CH2NH-biotinyl.

IT 816430-03-2P 816430-04-3DP, resin-bound
816430-04-3P 816430-05-4DP, resin-bound
816430-06-5DP, resin-bound 816430-06-5P
816430-07-6DP, resin-bound 816430-08-7DP, resin-bound
816430-08-7P 816430-09-8DP, resin-bound
816430-09-8P 816430-10-1DP, resin-bound
816430-11-2DP, resin-bound 816430-11-2P
816430-12-3DP, resin-bound 816430-12-3P
816430-14-5DP, resin-bound
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(solid-phase synthesis of C-terminally labeled peptides)

RN 816430-03-2 CAPLUS
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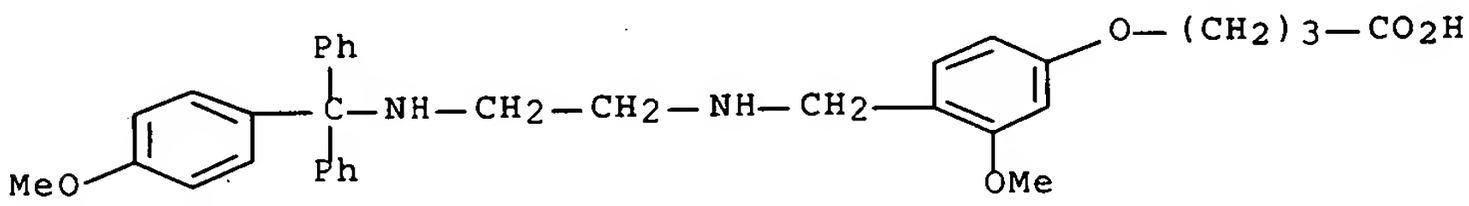
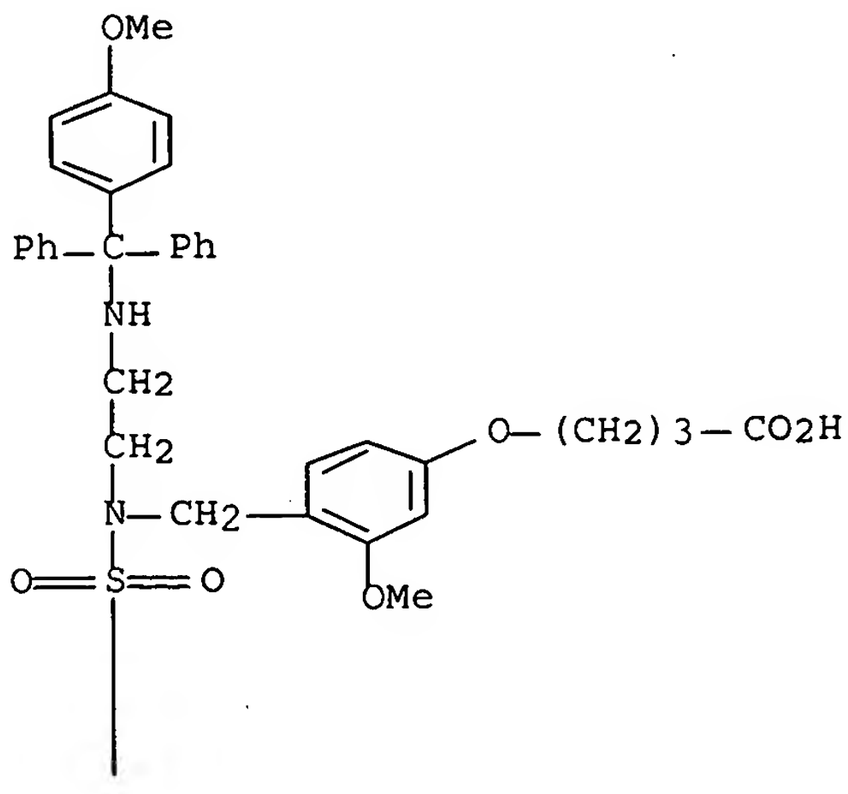


RN 816430-04-3 CAPLUS
CN Butanoic acid, 4-[4-[[[[5-(dimethylamino)-1-naphthalenyl]sulfonyl][2-[[(4-methoxyphenyl)diphenylmethyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)



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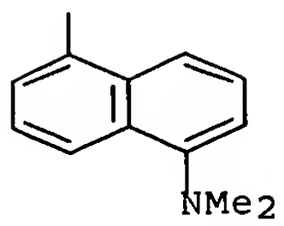

RN 816430-04-3 CAPLUS
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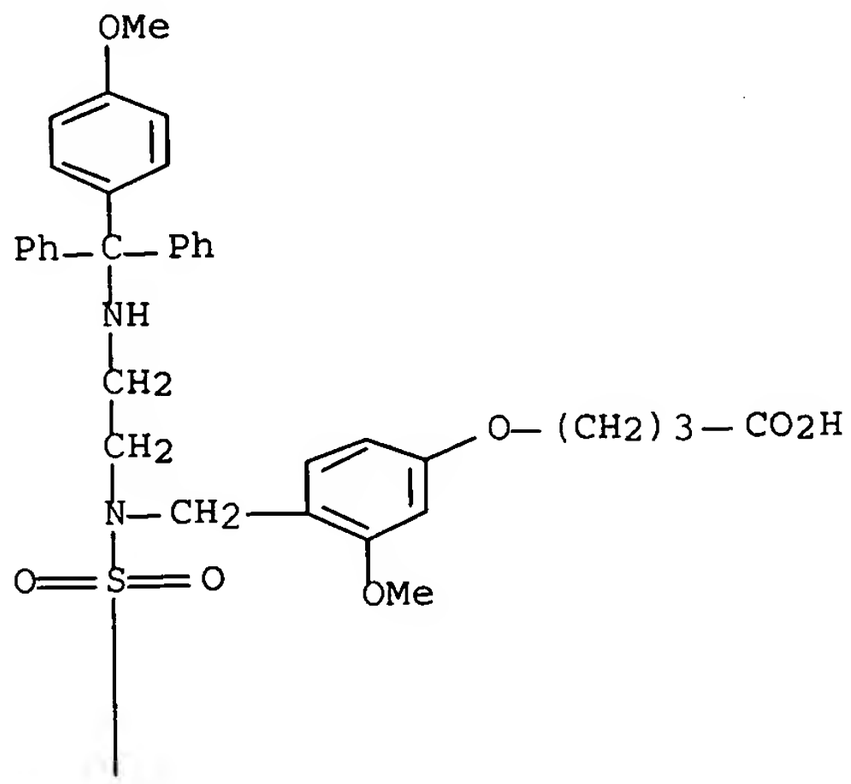

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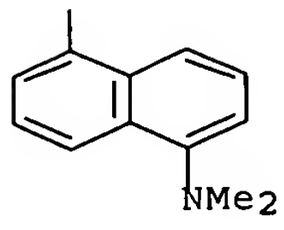

RN 816430-05-4 CAPLUS
CN Butanoic acid, 4-[4-[[[[5-(dimethylamino)-1-naphthalenyl]sulfonyl][2-[[(9H-

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(9CI) (CA INDEX NAME)

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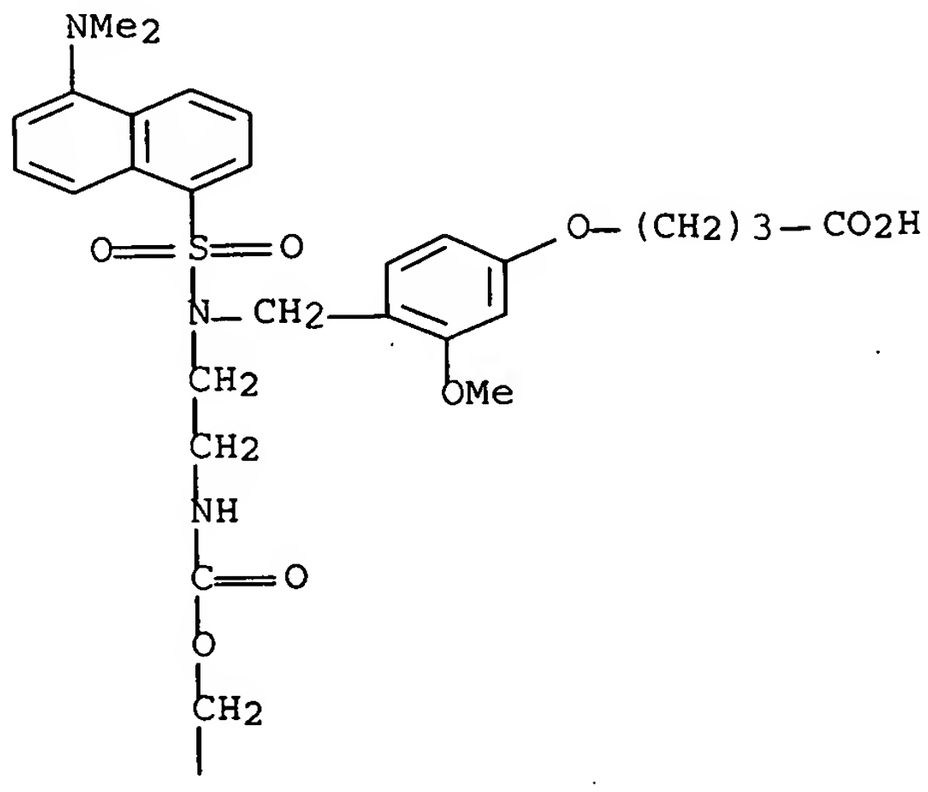

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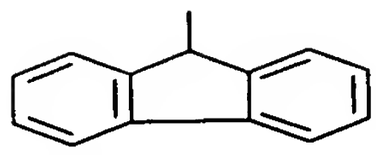

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CN Butanoic acid, 4-[3-methoxy-4-[[[(7-methoxy-2-oxo-2H-1-benzopyran-4-
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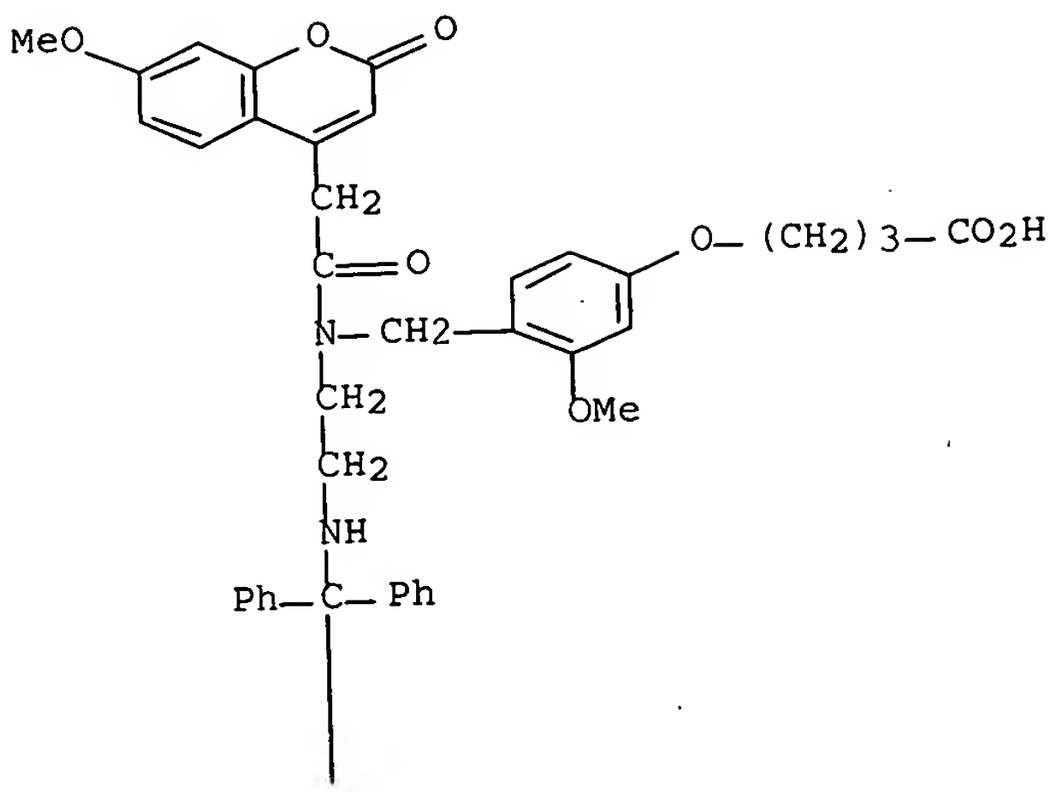
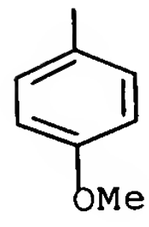
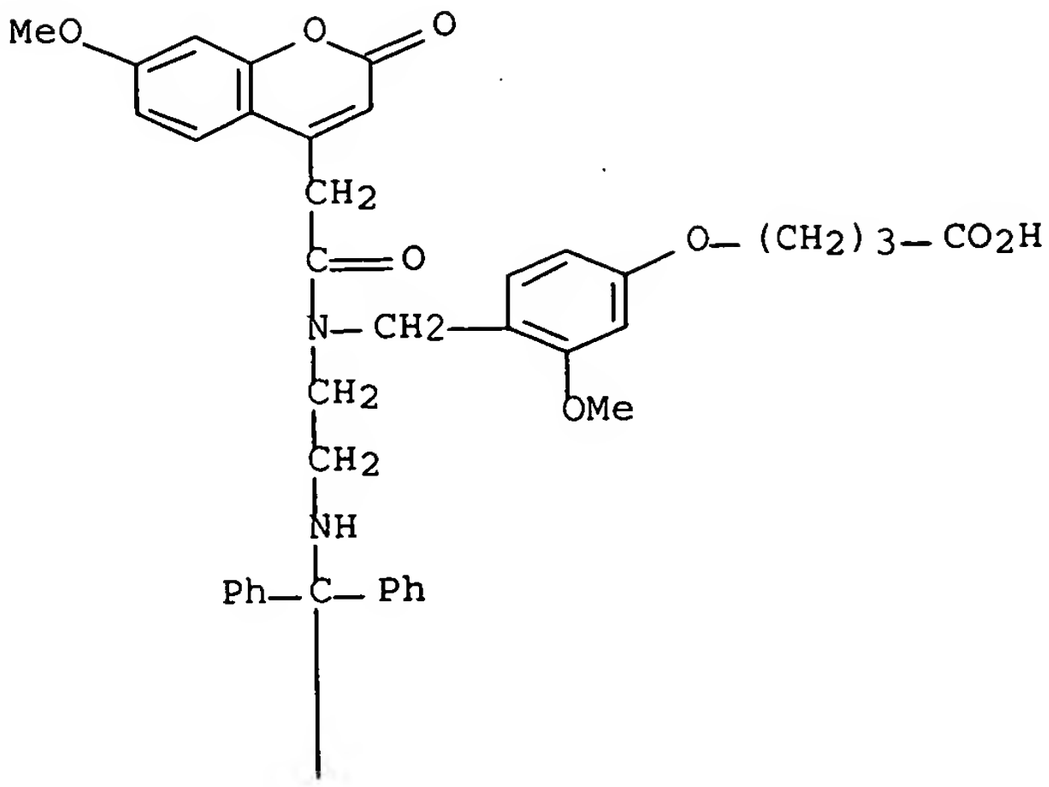
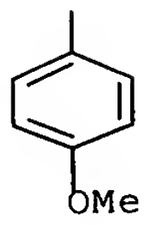




RN 816430-06-5 CAPLUS
CN Butanoic acid, 4-[3-methoxy-4-[[[(7-methoxy-2-oxo-2H-1-benzopyran-4-yl)acetyl][2-[[(4-methoxyphenyl)diphenylmethyl]amino]ethyl]amino]methyl]phenoxy]- (9CI) (CA INDEX NAME)





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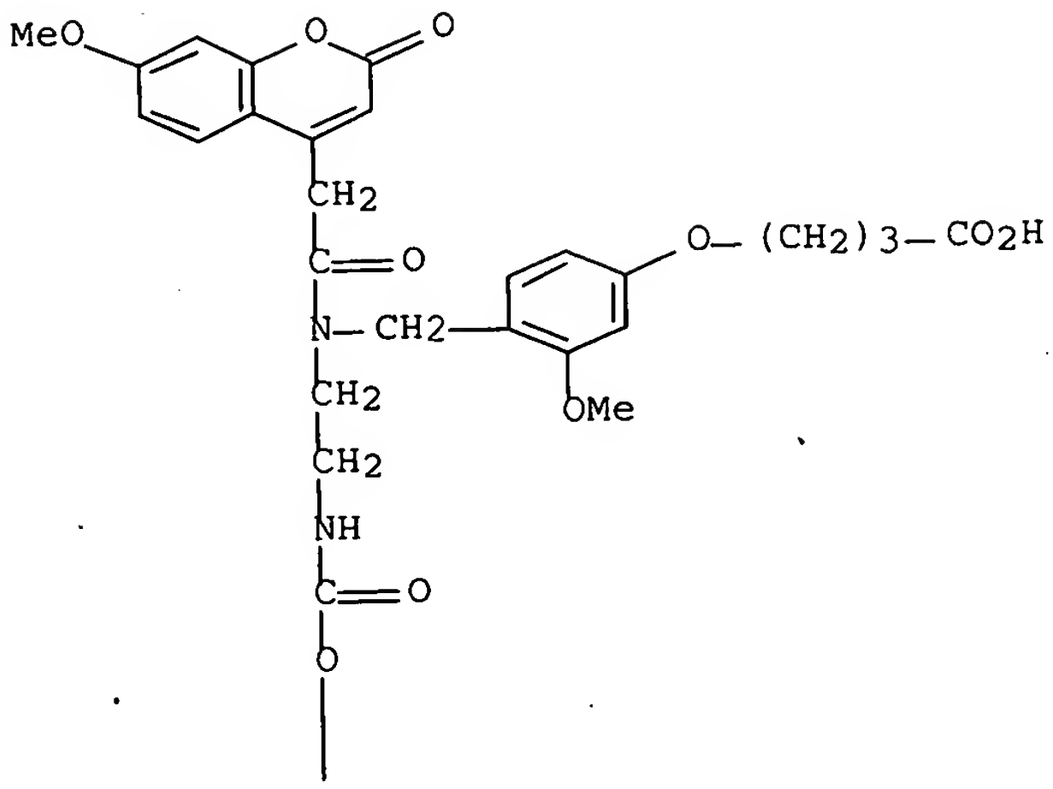

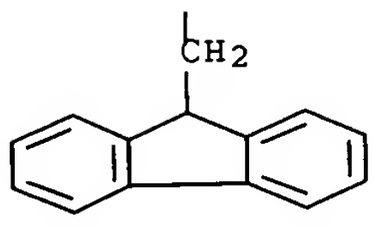

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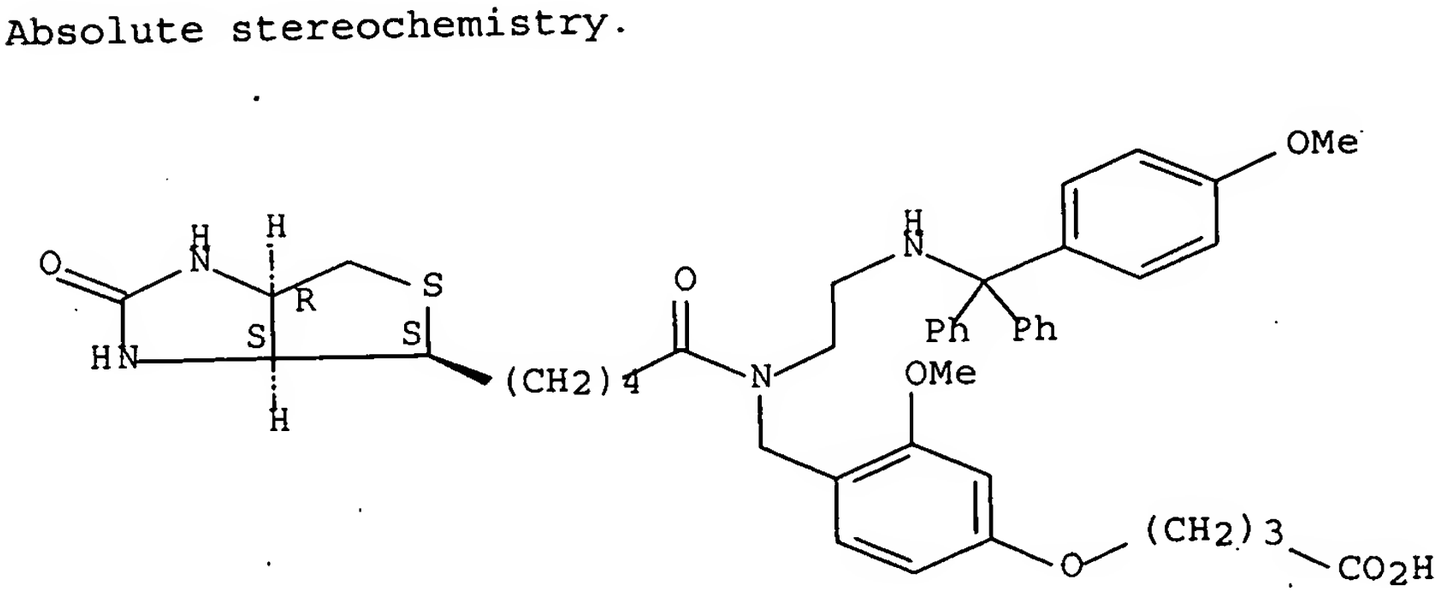
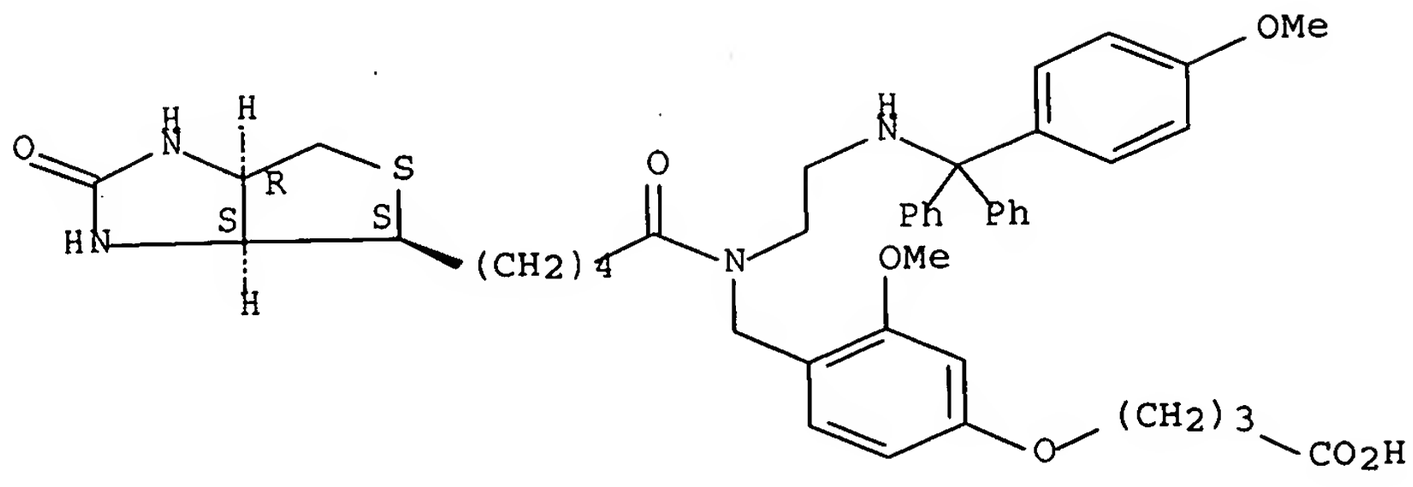
CN Butanoic acid, 4-[4-[[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl][2-[[(4-methoxyphenyl)diphenylmethyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 816430-08-7 CAPLUS
CN Butanoic acid, 4-[4-[[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl][2-[[(4-methoxyphenyl)diphenylmethyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 816430-09-8 CAPLUS
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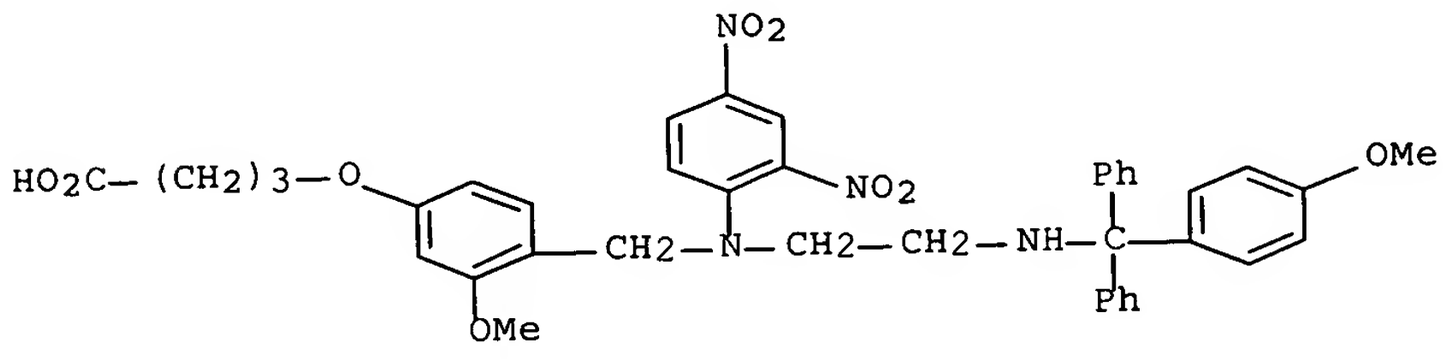
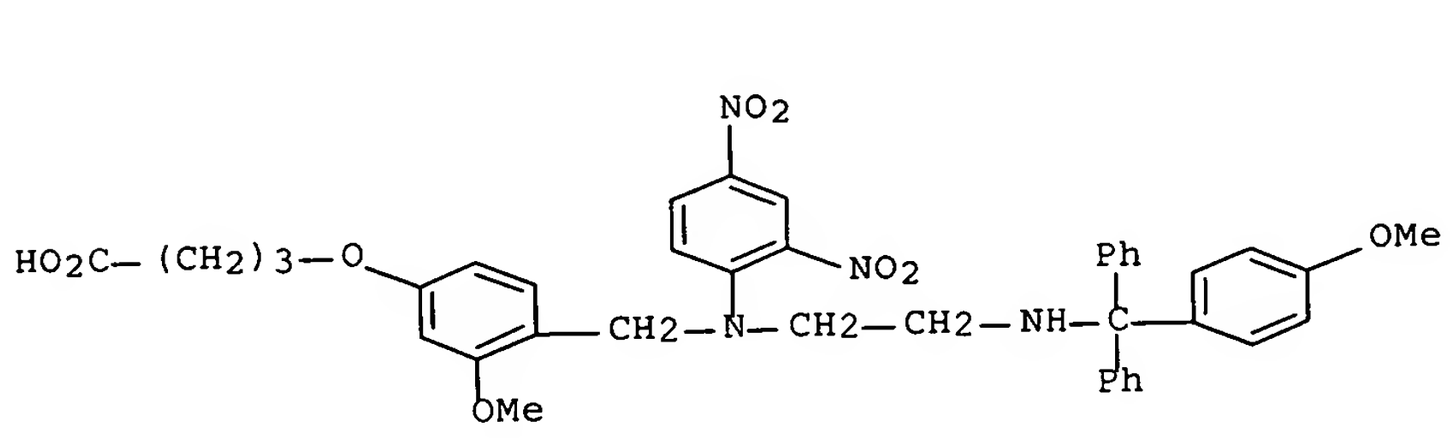
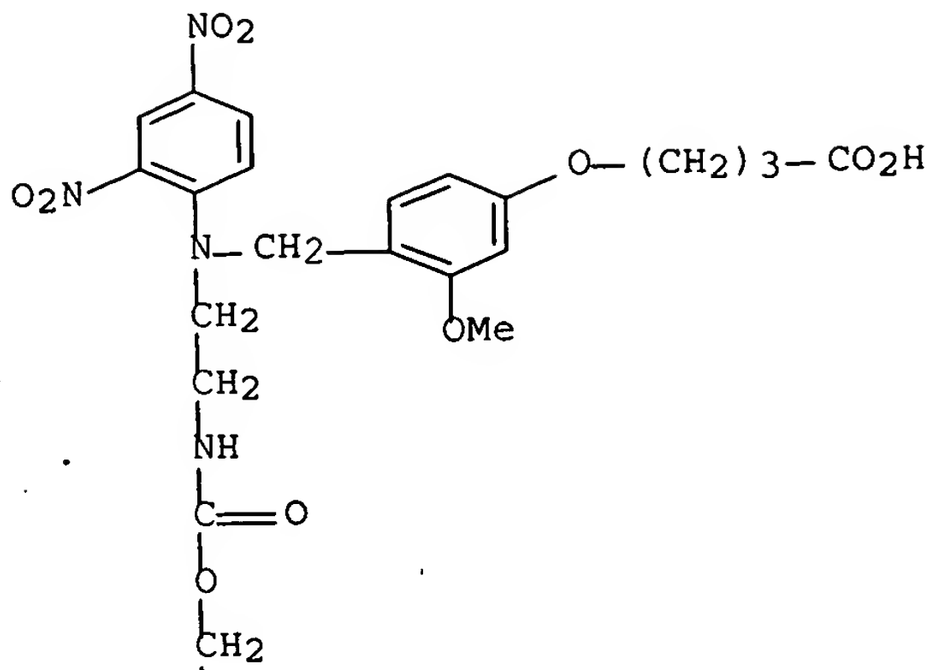
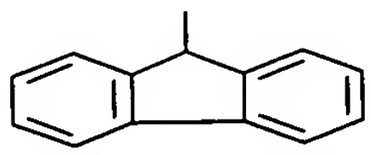


RN 816430-09-8 CAPLUS
CN Butanoic acid, 4-[4-[[(2,4-dinitrophenyl)[2-[[(4-methoxyphenyl)diphenylmethyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)



RN 816430-10-1 CAPLUS
CN Butanoic acid, 4-[4-[[(2,4-dinitrophenyl)[2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)





RN 816430-11-2 CAPLUS
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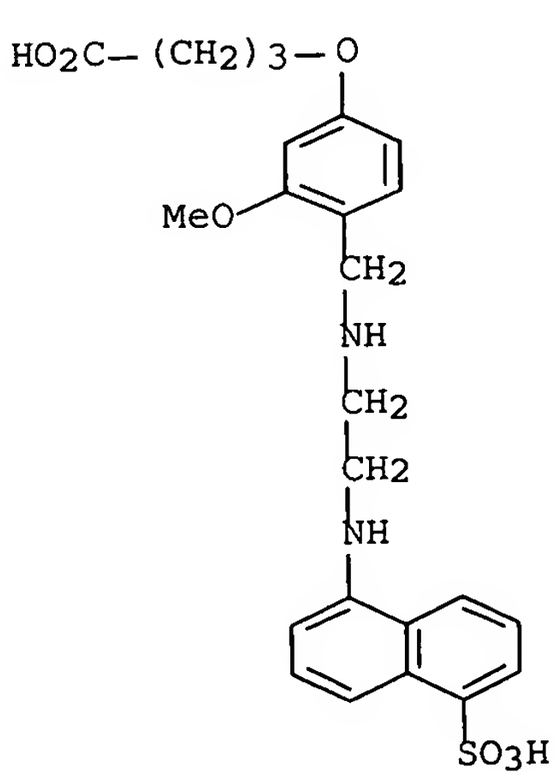

RN 816430-11-2 CAPLUS
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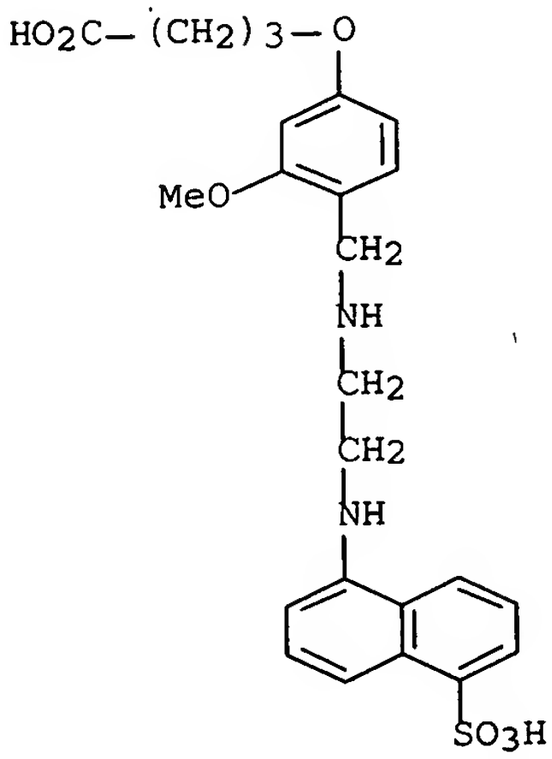

RN 816430-12-3 CAPLUS
CN Butanoic acid, 4-[4-[[[(9H-fluoren-9-ylmethoxy)carbonyl][2-[(5-sulfo-1-naphthalenyl)amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)

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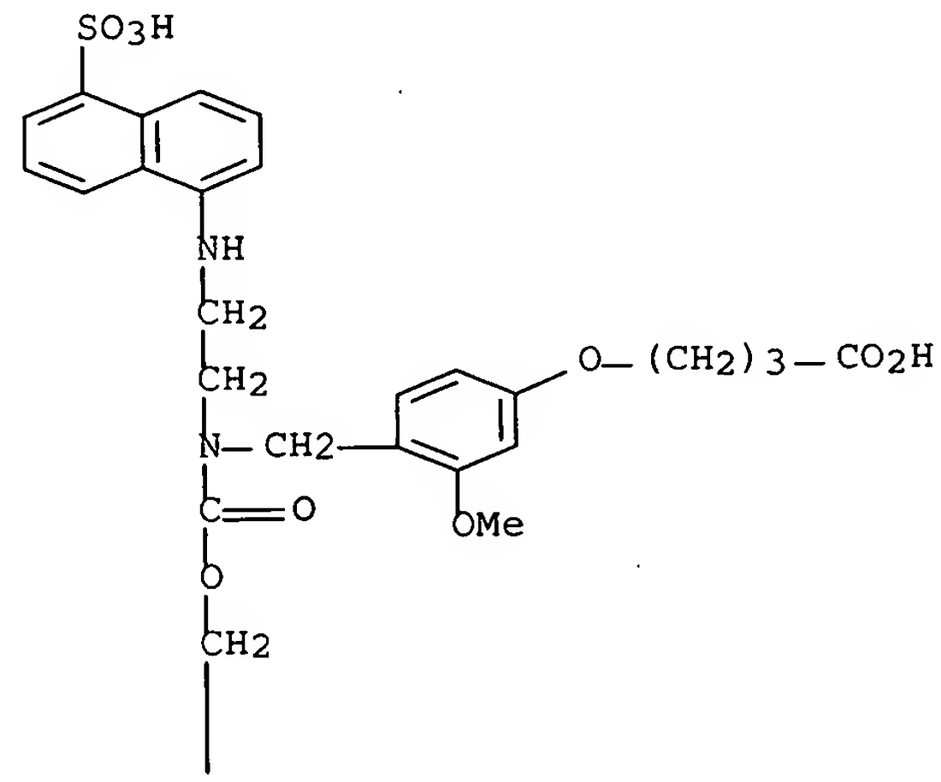

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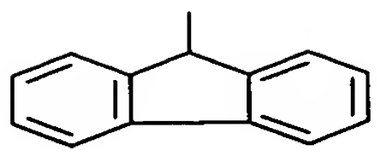

RN 816430-12-3 CAPLUS
CN Butanoic acid, 4-[4-[[[(9H-fluoren-9-ylmethoxy)carbonyl][2-[(5-sulfo-1-naphthalenyl)amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)

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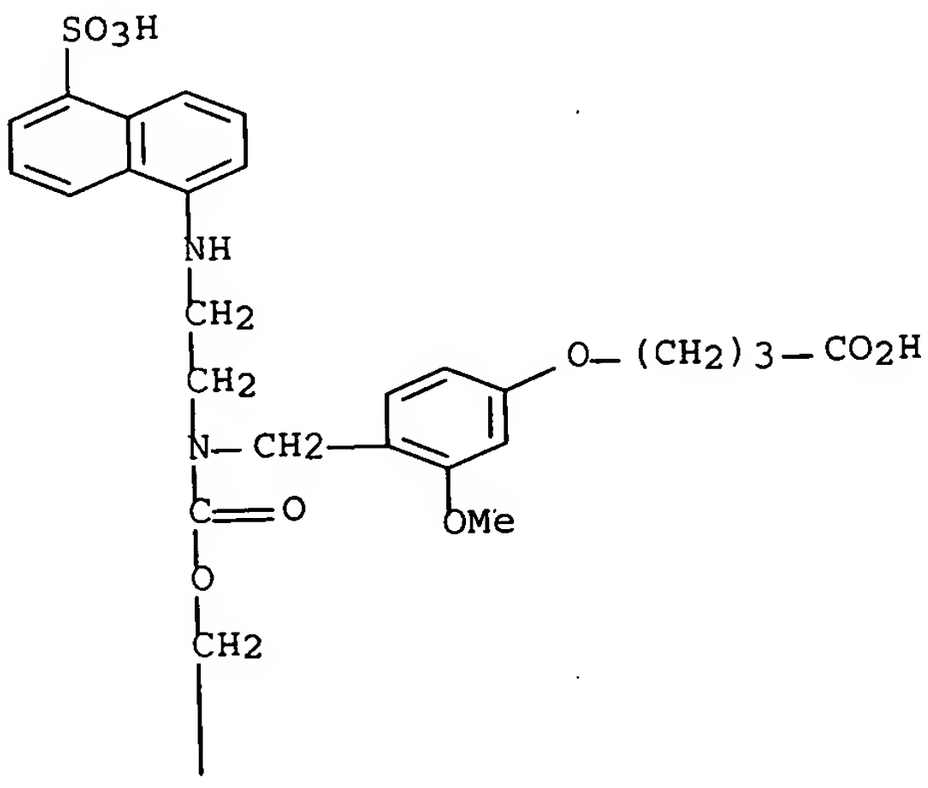

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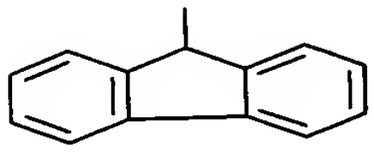
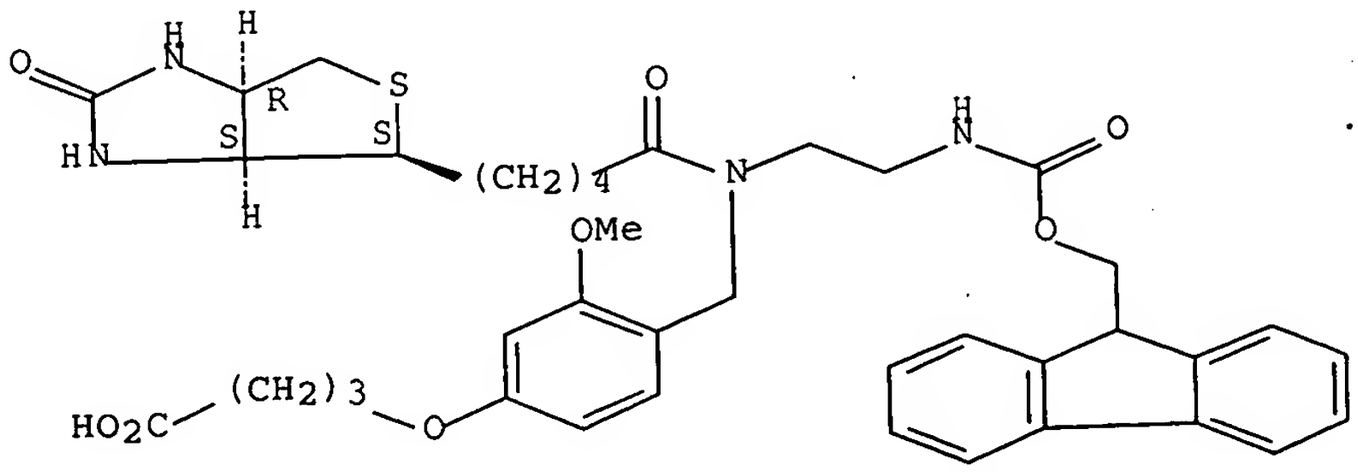


RN 816430-14-5 CAPLUS
CN Butanoic acid, 4-[4-[[[2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]ethyl][5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

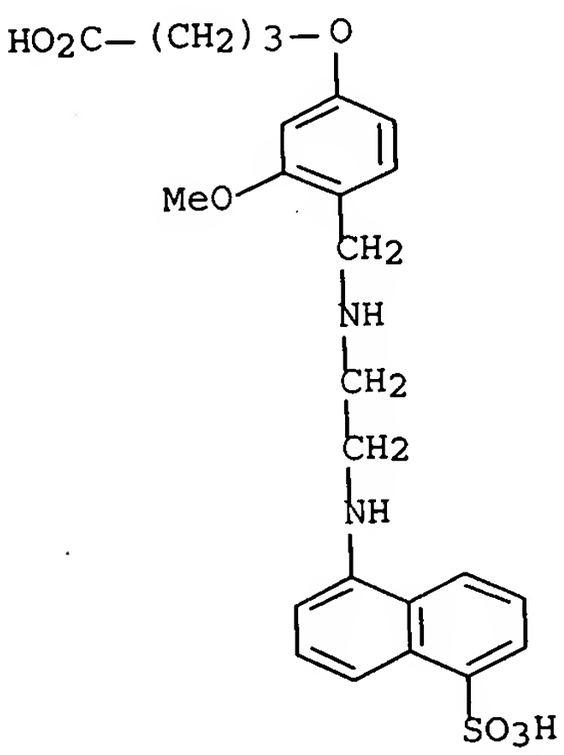


L15 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:1068183 CAPLUS Full-text
DOCUMENT NUMBER: 142:177109
TITLE: A solid phase linker strategy for the direct synthesis of EDANS-labeled peptide substrates
AUTHOR(S): Beythien, Joerg; White, Peter D.
CORPORATE SOURCE: Novabiochem, Merck Biosciences AG, Laufelfingen, CH-4448, Switz.
SOURCE: Tetrahedron Letters (2004), Volume Date 2005, 46(1), 101-104
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 142:177109

AB A novel linker strategy for the efficient synthesis of peptides C-terminally labeled with the EDANS [EDANS = 1-Naphthalenesulfonic acid, 5-[(2-aminoethyl)amino]-] fluorophore is described. Using this support, FRET peptide substrates bearing EDANS/Dabcyl [Dabcyl = benzoic acid, 4-[[4-(dimethylamino)phenyl]azo]-] fluorescent donor/acceptor groups can be readily prepared using standard Fmoc (Fmoc = 9- fluorenylmethyloxycarbonyl) solid phase methods.

IT 816430-11-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(solid phase synthesis of EDANS-labeled peptides)

RN 816430-11-2 CAPLUS
CN Butanoic acid, 4-[3-methoxy-4-[[[2-[(5-sulfo-1-naphthalenyl)amino]ethyl]amino]methyl]phenoxy]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:688514 CAPLUS Full-text

DOCUMENT NUMBER: 137:201610
TITLE: Methods for solid phase synthesis of mercapto compounds and derivatives and combinatorial libraries
INVENTOR(S): Patel, Dinesh V.; Ngu, Khehyong; Zhou, Jianping
PATENT ASSIGNEE(S): Versicor, Inc., USA
SOURCE: U.S., 33 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 6448058	B1	20020910	US 1998-151608		19980911
PRIORITY APPLN. INFO.:			US 1997-58744P	P	19970912

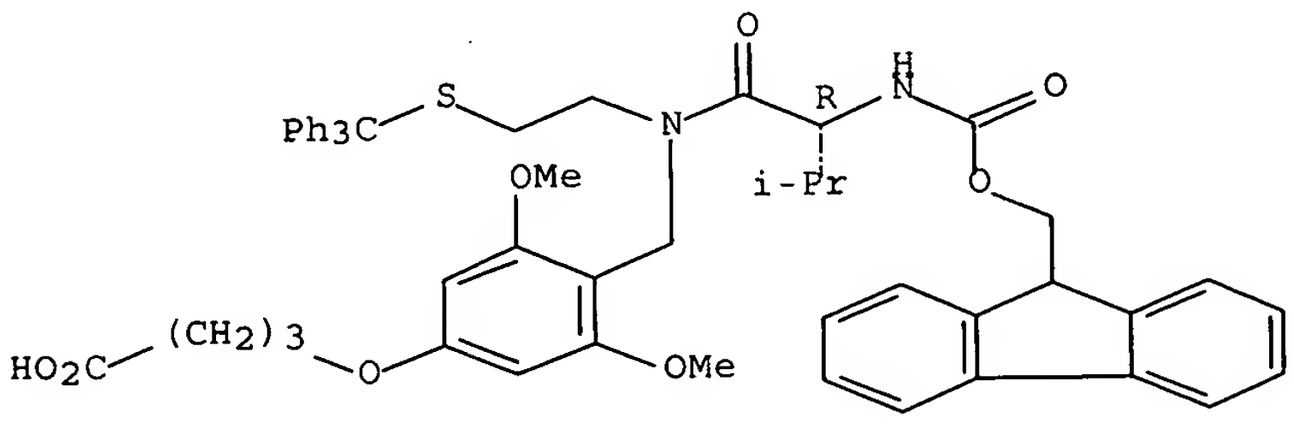
OTHER SOURCE(S): MARPAT 137:201610

AB Methods of preparing combinatorial libraries of mercapto (thiol) compds. HSCH2CHR3CO(NR4CHR5CO)mNR6R7 [R3-R7 = H, (hetero)alkyl, (hetero)aryl, or heterocyclyl] are disclosed. The invention also provides for screening the mercapto compds. for bioactive compds., in particular, for inhibitors of matrix metalloproteinases. Thus, HSCH2CHBuCO-Leu-NHC6H4NO2-p and HSCH2CHBuCO-Val-prolinol were prepared by the solid-phase method and showed IC50 values < 10 μM against peptide deformylase.

IT 454466-70-7DP, resin-bound 454466-71-8DP, resin-bound
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(solid phase synthesis of mercapto compds. and derivs. and combinatorial libraries)

RN 454466-70-7 CAPLUS
CN Butanoic acid, 4-[4-[[[(2R)-2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-3-methyl-1-oxobutyl][2-[(triphenylmethyl)thio]ethyl]amino]methyl]-3,5-dimethoxyphenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 454466-71-8 CAPLUS
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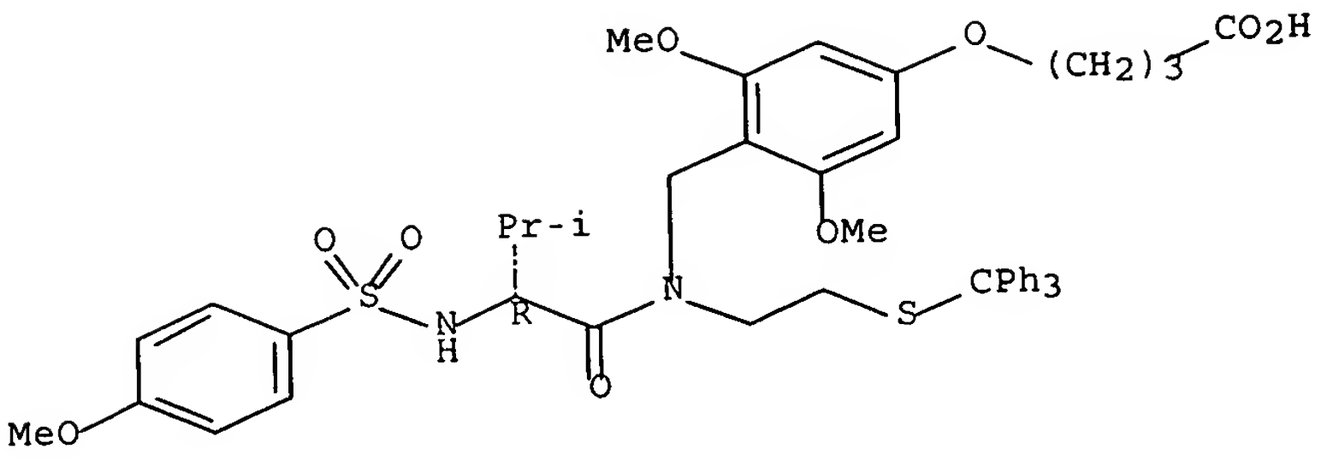
Absolute stereochemistry.



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:627227 CAPLUS Full-text
DOCUMENT NUMBER: 135:180955
TITLE: Methods for solid-phase synthesis of hydroxylamine compounds and derivatives and combinatorial libraries
INVENTOR(S): Patel, Dinesh V.; Ngu, Khehyong
PATENT ASSIGNEE(S): Versicor, Inc., USA
SOURCE: U.S., 76 pp., Cont.-in-part of U.S. Ser. No. 958,638.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6281245	B1	20010828	US 1998-74035	19980506
US 2001053555	A1	20011220	US 1997-958638	19971027
US 6541276	B2	20030401		
WO 9957097	A2	19991111	WO 1999-US9996	19990506
WO 9957097	A3	20000309		
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RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9939748	A	19991123	AU 1999-39748	19990506

PRIORITY APPLN. INFO.:

US 1996-29788P	P	19961028
US 1997-47468P	P	19970523
US 1997-958638	A2	19971027
US 1998-74035	A	19980506
WO 1999-US9996	W	19990506

OTHER SOURCE(S): MARPAT 135:180955

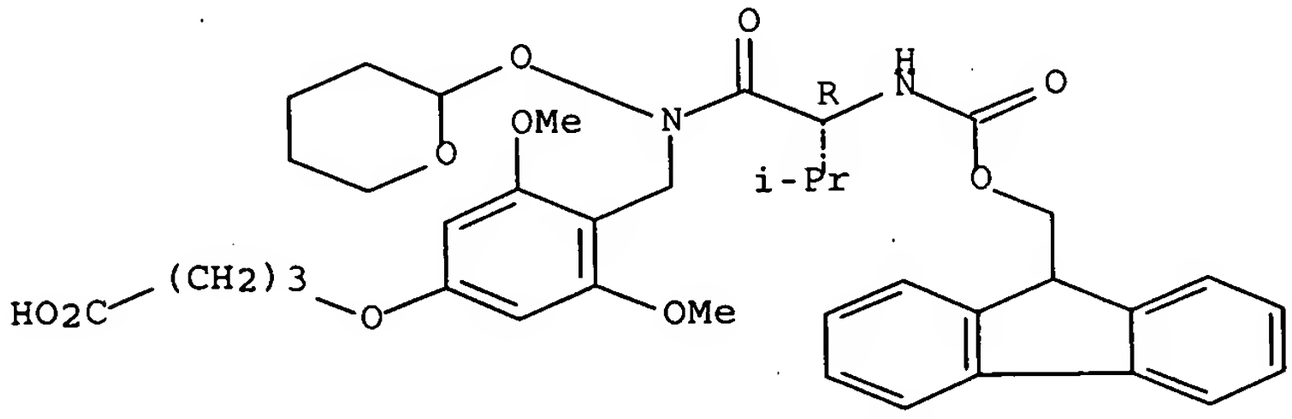
AB Hydroxylamine compds. HONHCOCHR1NR2COR3, HONHCOCHR1NR2CONR3R4, and HONHCOCHR1CHR2CONR3R4 (R1-R4 = H, alkyl, heteroalkyl, aryl, heteroaryl, heterocyclyl and (non)naturally occurring amino acid side chains) or stereoisomers, protected derivs., or salts were prepared Techniques of combinatorial chemical can be applied to immobilized alkoxyamines to generate a diverse set of compds. Thus, (S,S)-HONHCOCH2CH(CH2CH2SMe)CONHCH(Bu-

i)CONHC6H4NO2-p was prepared and assayed for peptide deformylase and antimicrobial activities [IC50 = 11 nM and 64 μM/mL (S. aureus), resp.].

IT 249535-77-1DP, resin-bound 249535-78-2DP, resin-bound
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(solid-phase synthesis of hydroxylamine compds. and derivs. and combinatorial libraries)

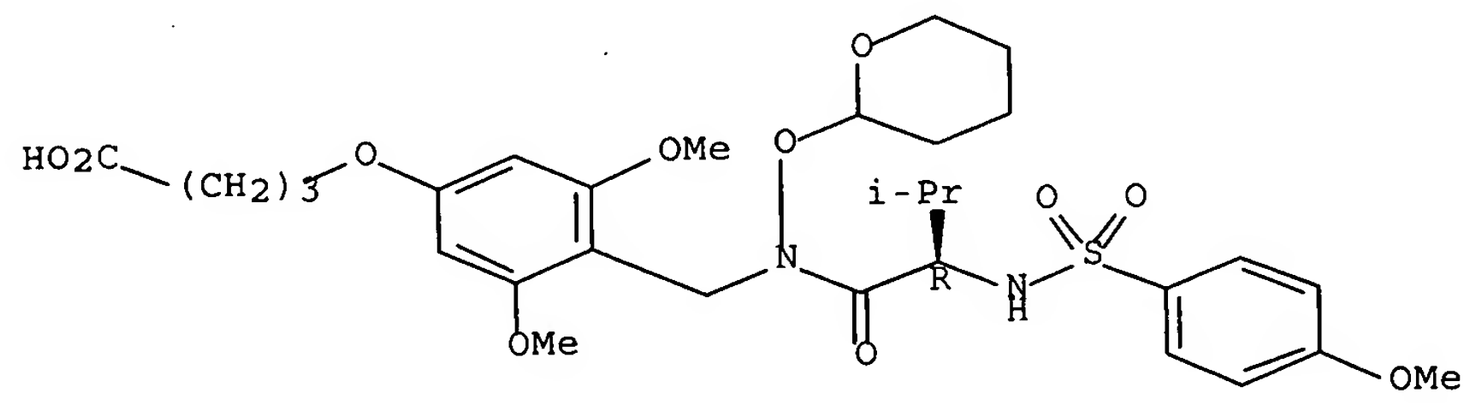
RN 249535-77-1 CAPLUS
CN Butanoic acid, 4-[4-[[[(2R)-2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-3-methyl-1-oxobutyl][(tetrahydro-2H-pyran-2-yl)oxy]amino]methyl]-3,5-dimethoxyphenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 249535-78-2 CAPLUS
CN Butanoic acid, 4-[3,5-dimethoxy-4-[[[(2R)-2-[[(4-methoxyphenyl)sulfonyl]amino]-3-methyl-1-oxobutyl][(tetrahydro-2H-pyran-2-yl)oxy]amino]methyl]phenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:723015 CAPLUS Full-text
DOCUMENT NUMBER: 131:322926
TITLE: Methods for solid-phase synthesis of hydroxylamine compounds and derivatives and combinatorial libraries
INVENTOR(S): Patel, Dinesh V.; Ngu, Khehyong
PATENT ASSIGNEE(S): Versicor, Inc., USA
SOURCE: PCT Int. Appl., 122 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9957097	A2	19991111	WO 1999-US9996	19990506
WO 9957097	A3	20000309		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6281245	B1	20010828	US 1998-74035	19980506
AU 9939748	A	19991123	AU 1999-39748	19990506
PRIORITY APPLN. INFO.:			US 1998-74035 A	19980506
			US 1996-29788P P	19961028
			US 1997-47468P P	19970523
			US 1997-958638 A2	19971027
			WO 1999-US9996 W	19990506

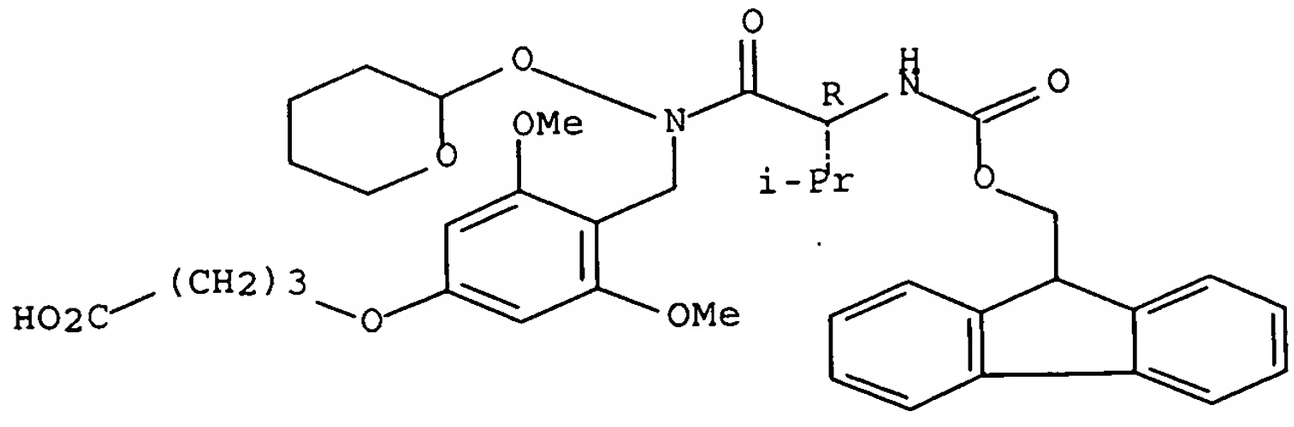
OTHER SOURCE(S): MARPAT 131:322926

AB Hydroxylamine compds. HONHCOCH2CH(CH2CH2-X-Me)CO-L10-CO-R2 [X = CH2, S; L10 = NHCHMe, NHCH(Bu-i), NHCH(CH2)Ph and related residues of optically active amino acids; R2 = NH2, piperidino, morpholino, 4-methylpiperazino, etc.] and all stereoisomers, protected derivs., and salts were prepared Techniques of combinatorial chemical can be applied to immobilized alkoxyamines to generate a diverse set of compds. Thus, (S,S)-HONHCOCH2CH(CH2CH2SMe)CONHCH(Bu-i)CONHC6H4NO2-p was prepared and assayed for peptide deformylase and antimicrobial activities [IC50 = 11 nM and 64 μM/mL (S. aureus), resp.].

IT 249535-77-1DP, resin-bound 249535-78-2DP, resin-bound
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(solid-phase synthesis of hydroxylamine compds. and derivs. and combinatorial libraries)

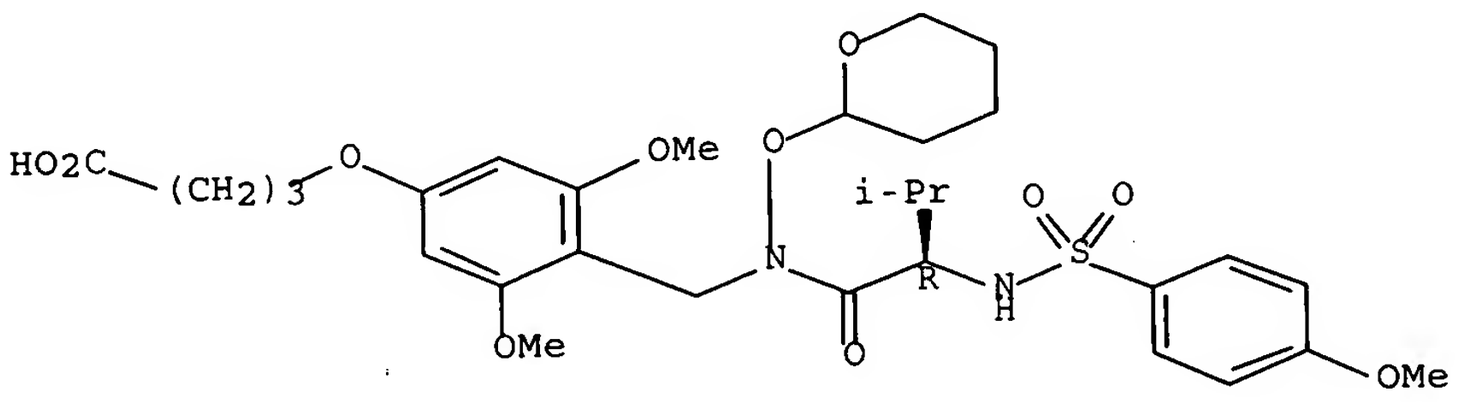
RN 249535-77-1 CAPLUS
CN Butanoic acid, 4-[4-[[[(2R)-2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-3-methyl-1-oxobutyl][(tetrahydro-2H-pyran-2-yl)oxy]amino]methyl]-3,5-dimethoxyphenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 249535-78-2 CAPLUS
CN Butanoic acid, 4-[3,5-dimethoxy-4-[[[(2R)-2-[[(4-methoxyphenyl)sulfonyl]amino]-3-methyl-1-oxobutyl][(tetrahydro-2H-pyran-2-yl)oxy]amino]methyl]phenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L15 ANSWER 8 OF 10 USPATFULL on STN

ACCESSION NUMBER:	2004:334867 USPATFULL Full-text
TITLE:	Method and building blocks for preparing C-terminally labelled peptides
INVENTOR(S):	White, Peter David, Southwell, UNITED KINGDOM Beythien, Jorg Karl Wilheim, Budendorf, SWITZERLAND

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004265949	A1	20041230	
APPLICATION INFO.:	US 2003-607175	A1	20030626	(10)
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	APPLICATION			
LEGAL REPRESENTATIVE:	FRELING E. BAKER, BROWN MARTIN HALLER & MCCLAIM, 1660 UNION STREET, SAN DIEGO, CA, 92101			
NUMBER OF CLAIMS:	9			
EXEMPLARY CLAIM:	1			
NUMBER OF DRAWINGS:	5 Drawing Page(s)			
LINE COUNT:	1028			

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

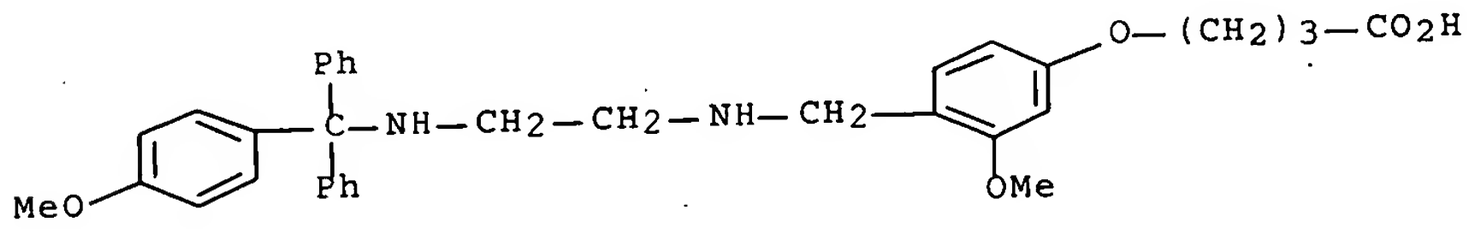
AB A method for preparing C-terminally labelled peptides and building blocks to be used in this synthesis includes a trivalent nitrogen atom having at least one device for attachment to a solid support, one device for the attachment of amino acids and one device for attachment of a label, whereby the device for the attachment of amino acids and/or the device for the attachment of a label is a linker, e.g. an alkyl- or polyethyleneglycol- linker.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

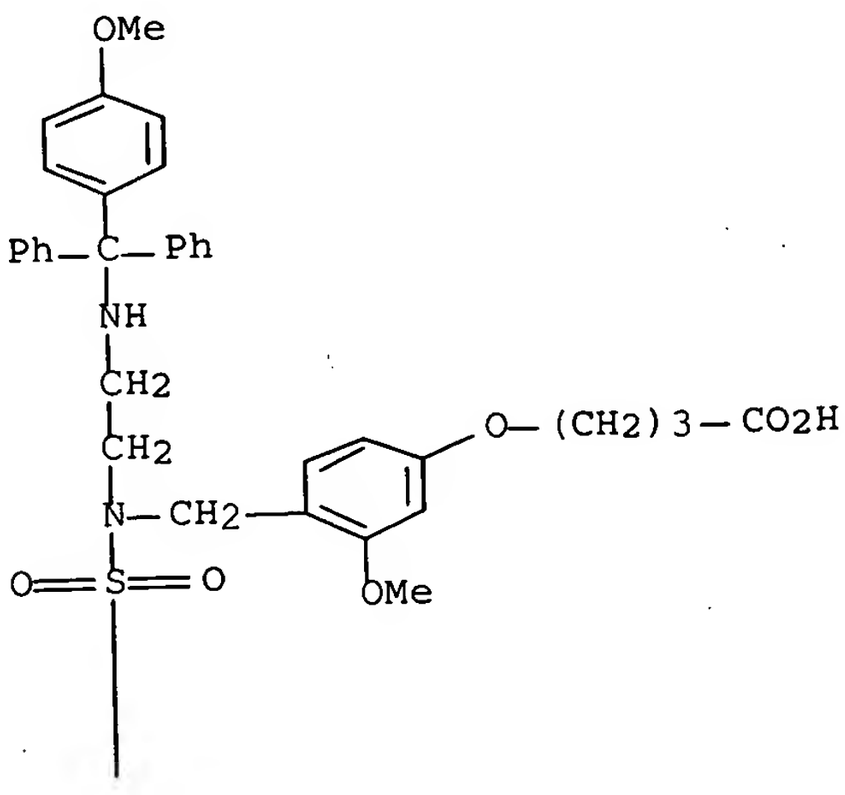
IT 816430-03-2P 816430-04-3DP, resin-bound
816430-04-3P 816430-05-4DP, resin-bound
816430-06-5DP, resin-bound 816430-06-5P
816430-07-6DP, resin-bound 816430-08-7DP, resin-bound
816430-08-7P 816430-09-8DP, resin-bound
816430-09-8P 816430-10-1DP, resin-bound
816430-11-2DP, resin-bound 816430-11-2P
816430-12-3DP, resin-bound 816430-12-3P
816430-14-5DP, resin-bound

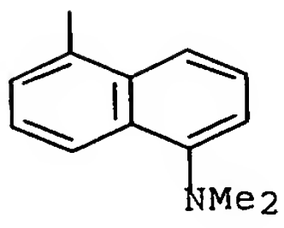
(solid-phase synthesis of C-terminally labeled peptides)

RN 816430-03-2 USPATFULL
CN Butanoic acid, 4-[3-methoxy-4-[[[2-[[(4-methoxyphenyl)diphenylmethyl]amino]ethyl]amino]methyl]phenoxy]- (9CI) (CA INDEX NAME)

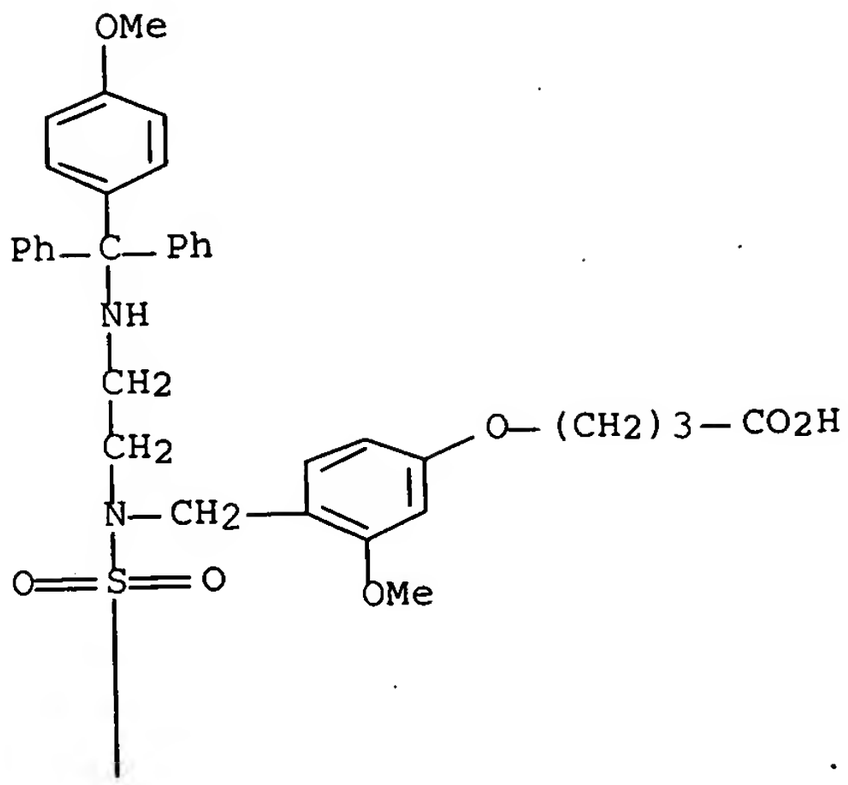


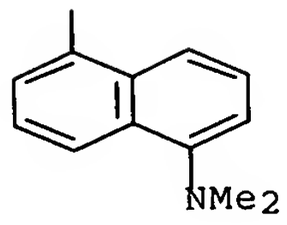
RN 816430-04-3 USPATFULL
CN Butanoic acid, 4-[4-[[[[5-(dimethylamino)-1-naphthalenyl]sulfonyl][2-[[(4-methoxyphenyl)diphenylmethyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)



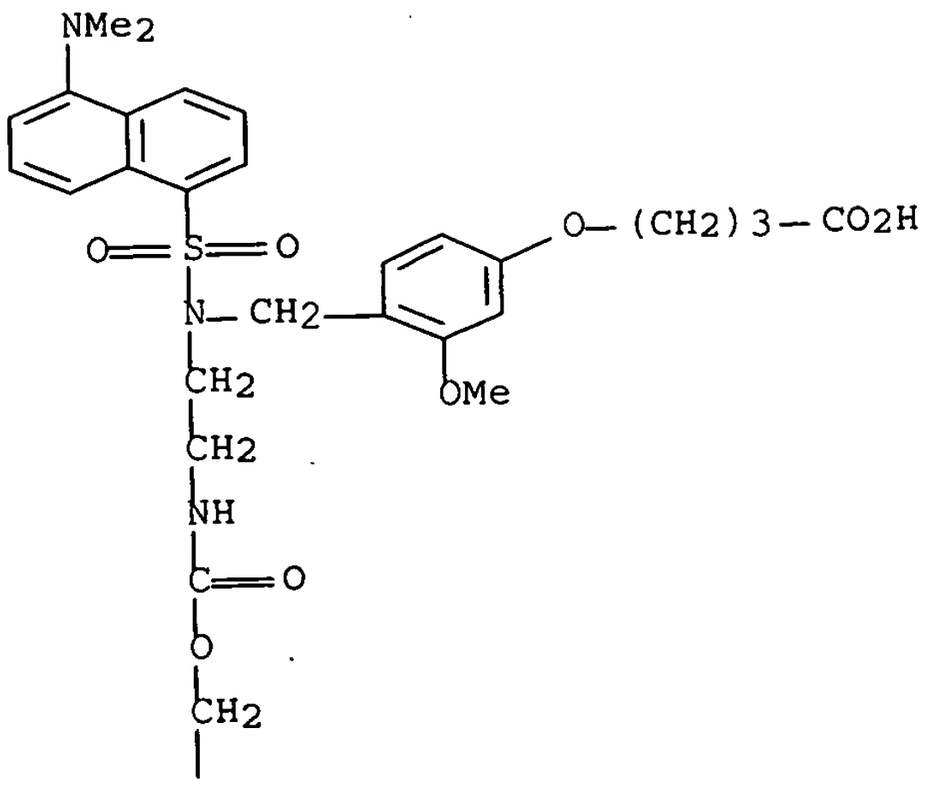


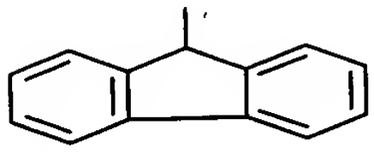
RN 816430-04-3 USPATFULL
CN Butanoic acid, 4-[4-[[[[5-(dimethylamino)-1-naphthalenyl]sulfonyl][2-[[(4-methoxyphenyl)diphenylmethyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)



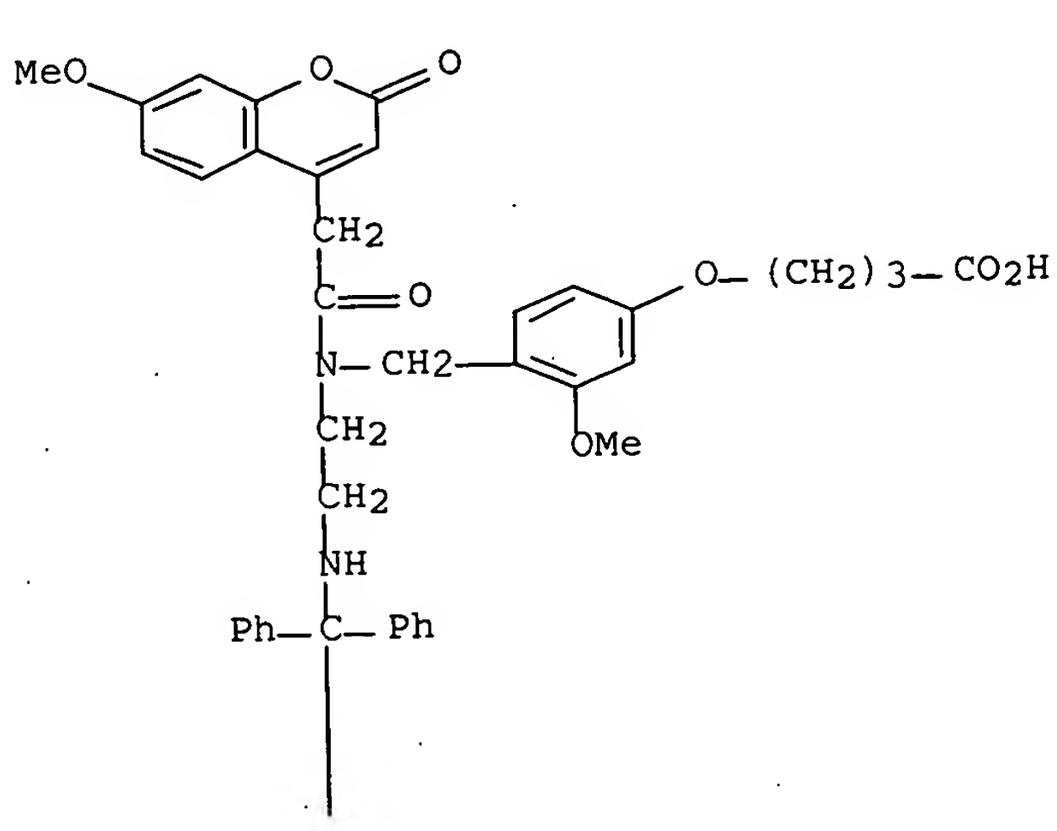


RN 816430-05-4 USPATFULL
CN Butanoic acid, 4-[4-[[[[5-(dimethylamino)-1-naphthalenyl]sulfonyl][2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)

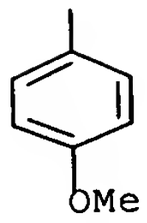




RN 816430-06-5 USPATFULL
CN Butanoic acid, 4-[3-methoxy-4-[[[(7-methoxy-2-oxo-2H-1-benzopyran-4-yl)acetyl][2-[[(4-methoxyphenyl)diphenylmethyl]amino]ethyl]amino]methyl]phenoxy]- (9CI) (CA INDEX NAME)

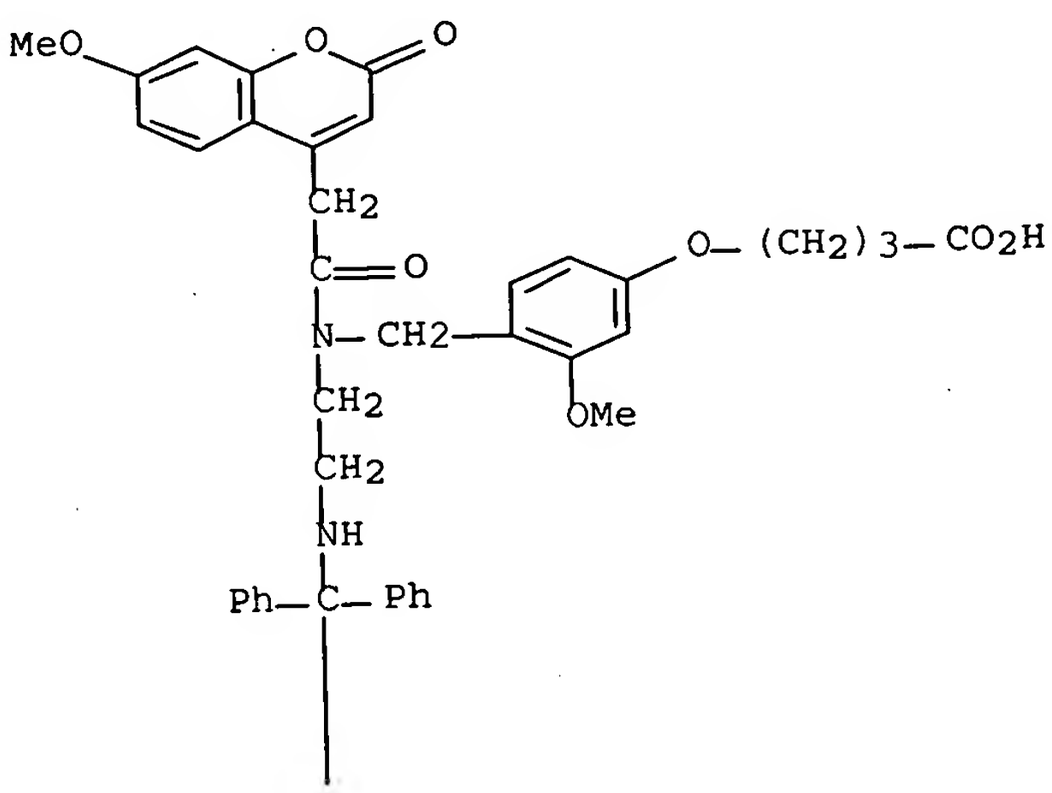


PAGE 2-A



RN 816430-06-5 USPATFULL
CN Butanoic acid, 4-[3-methoxy-4-[[[(7-methoxy-2-oxo-2H-1-benzopyran-4-yl)acetyl][2-[[(4-methoxyphenyl)diphenylmethyl]amino]ethyl]amino]methyl]phenoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A



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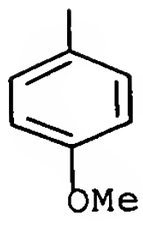
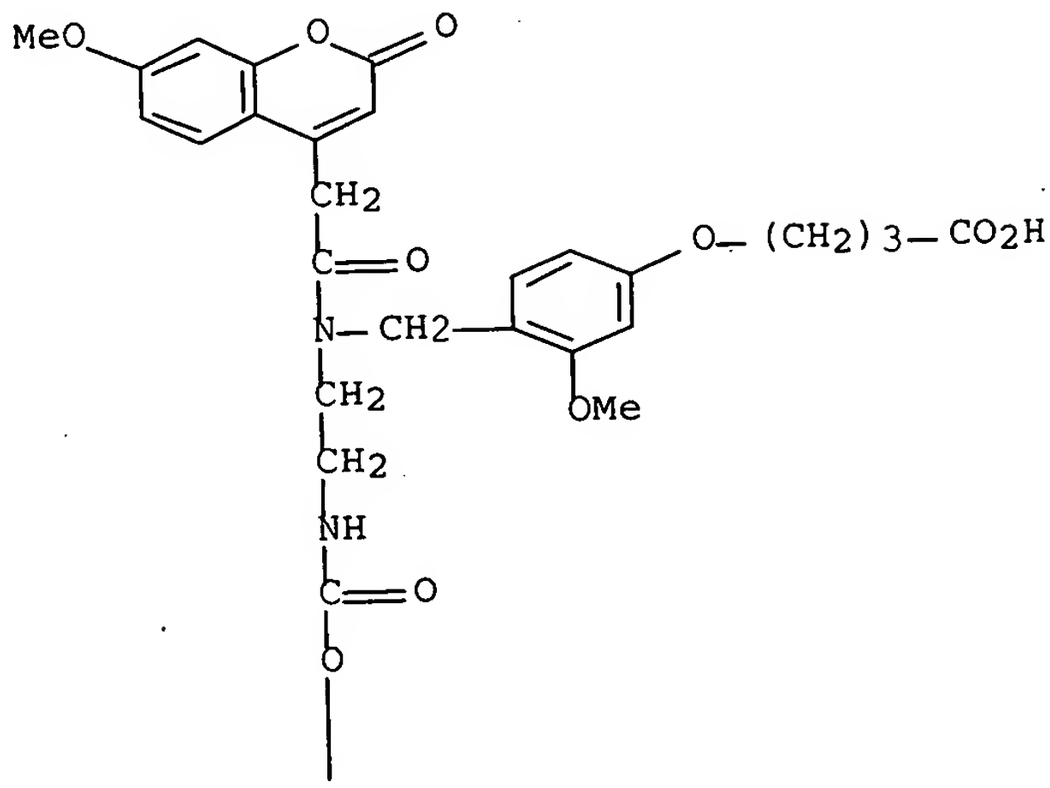


RN 816430-07-6 USPATFULL
CN Butanoic acid, 4-[4-[[[2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]ethyl][(7-methoxy-2-oxo-2H-1-benzopyran-4-yl)acetyl]amino]methyl]-3-

methoxyphenoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A



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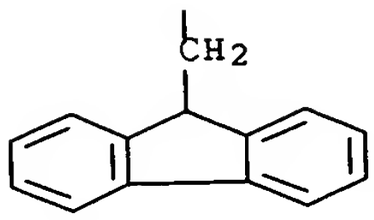
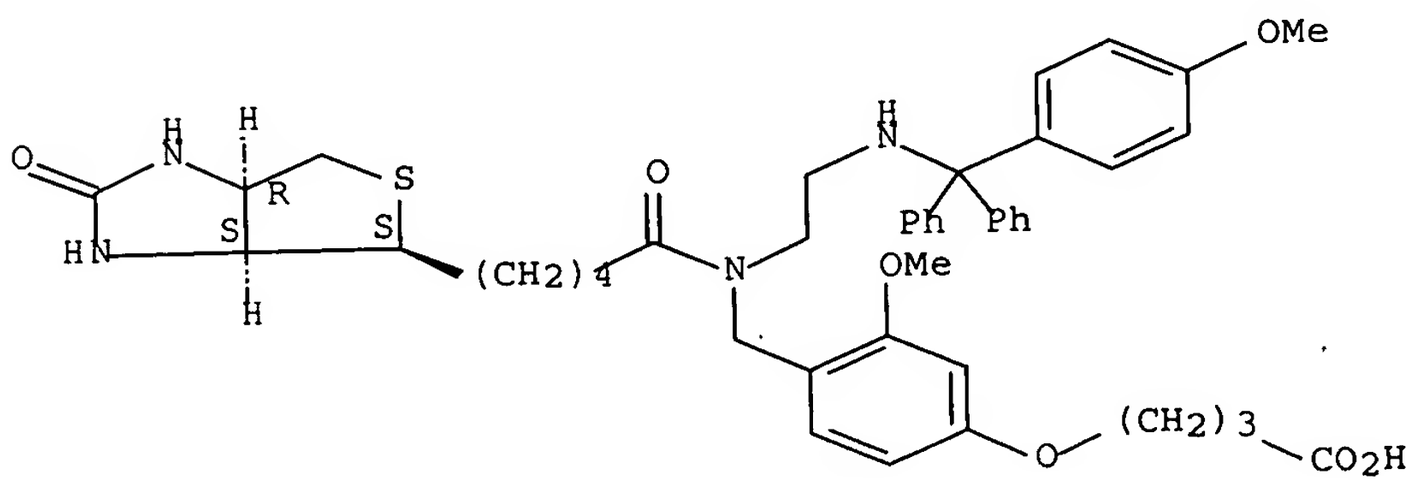


RN 816430-08-7 USPATFULL
CN Butanoic acid, 4-[4-[[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl][2-[[(4-methoxyphenyl)diphenylmethyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)

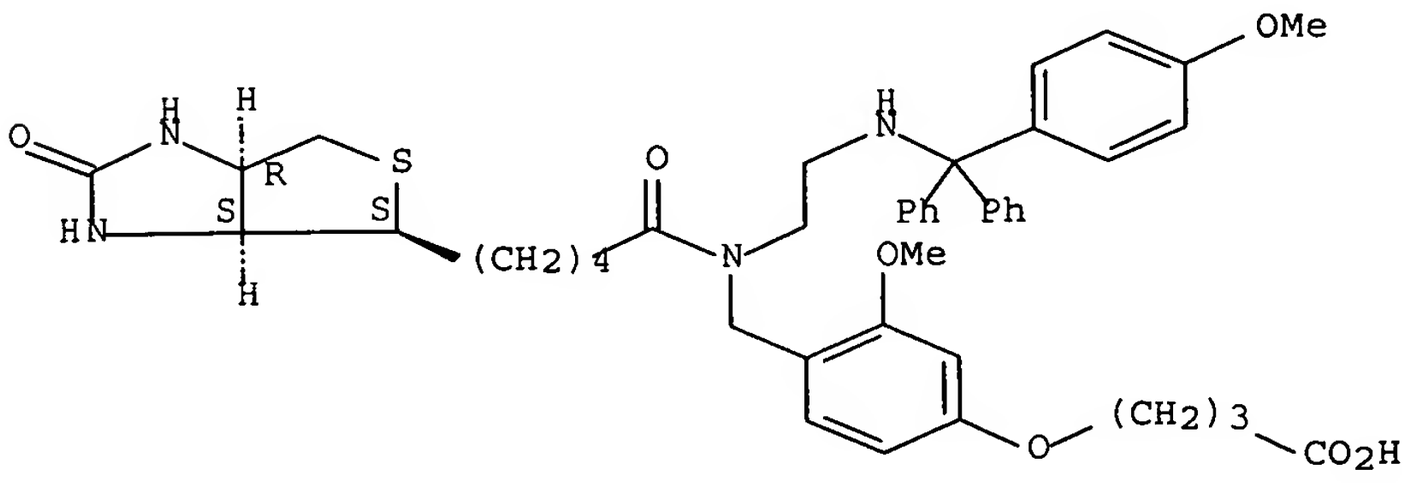
Absolute stereochemistry.



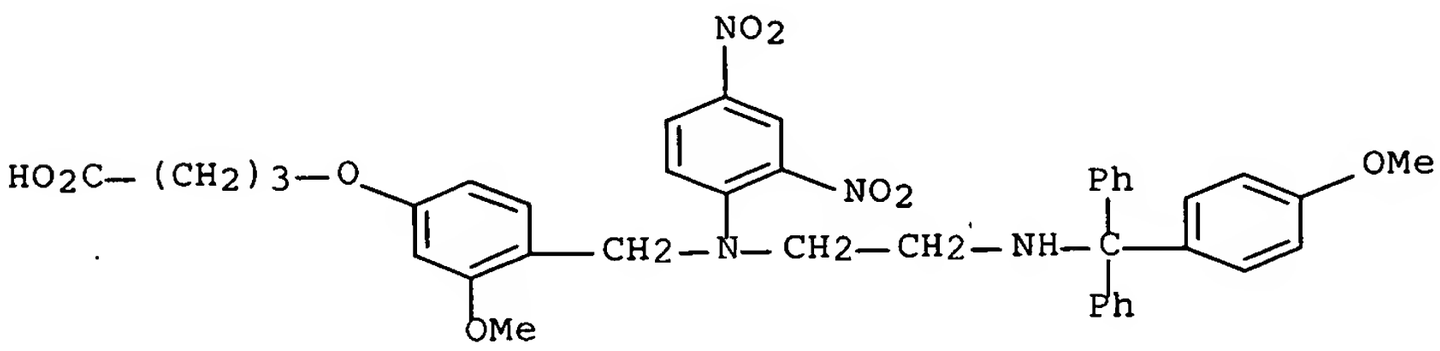
RN 816430-08-7 USPATFULL

CN Butanoic acid, 4-[4-[[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl][2-[[(4-methoxyphenyl)diphenylmethyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)

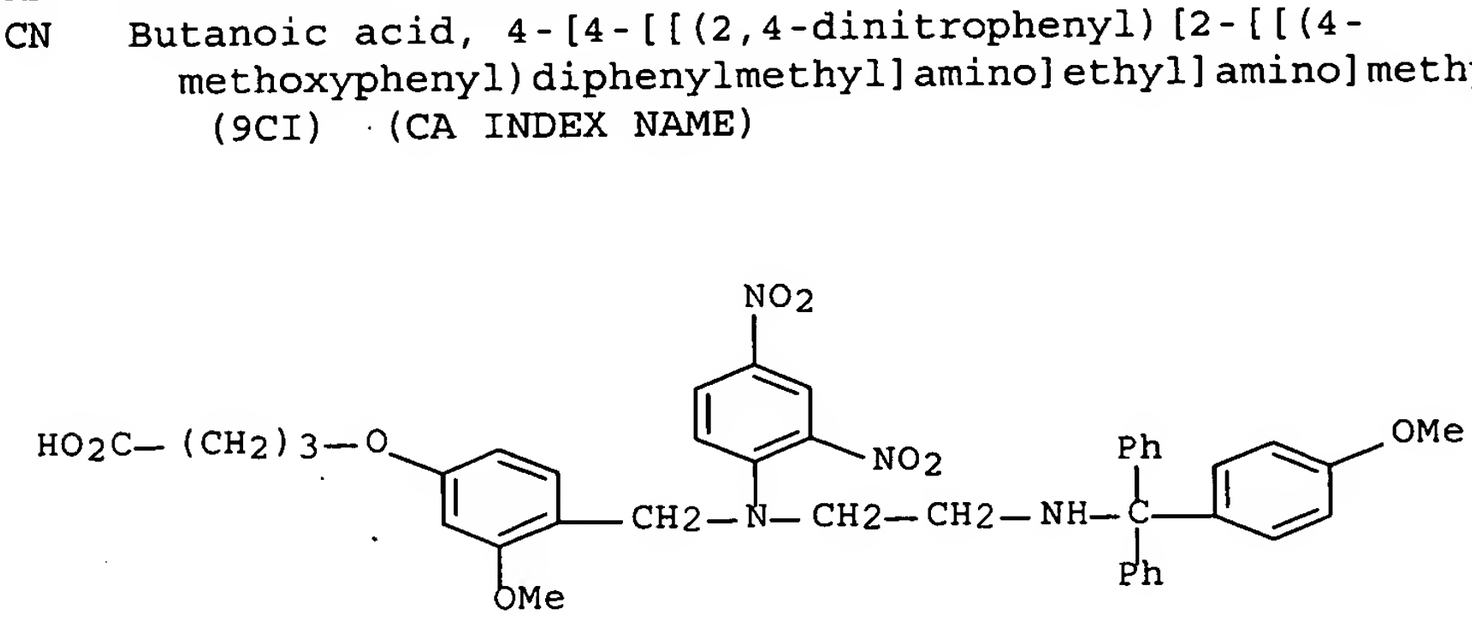
Absolute stereochemistry.



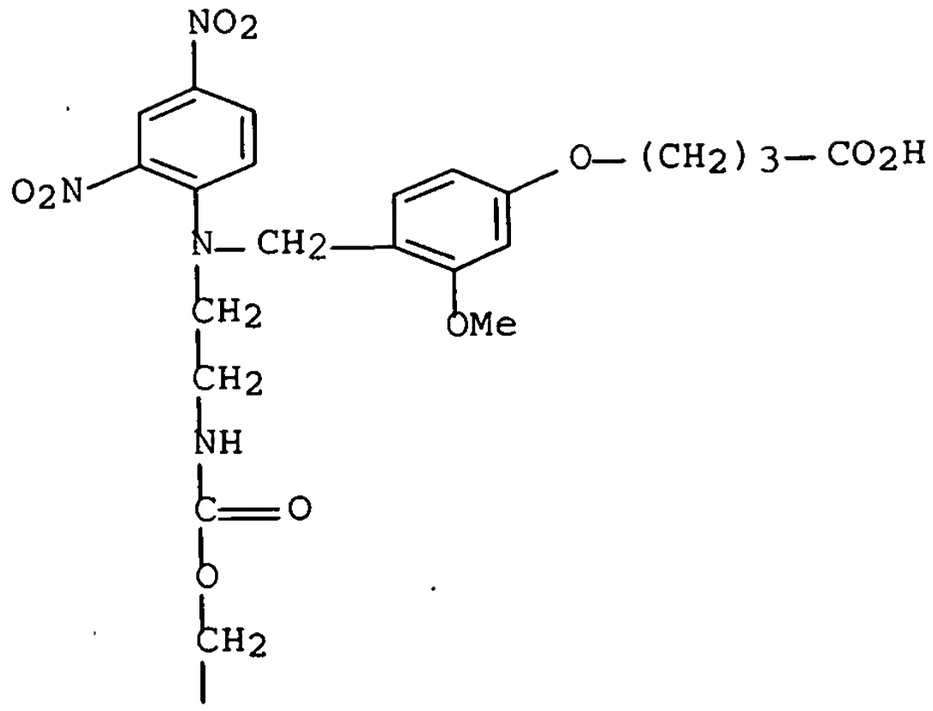
RN 816430-09-8 USPATFULL
CN Butanoic acid, 4-[4-[[(2,4-dinitrophenyl)[2-[[(4-methoxyphenyl)diphenylmethyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)

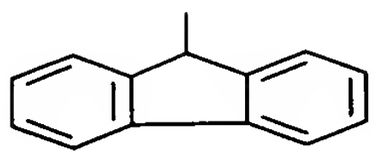


RN 816430-09-8 USPATFULL
CN Butanoic acid, 4-[4-[[(2,4-dinitrophenyl)[2-[[(4-methoxyphenyl)diphenylmethyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)



RN 816430-10-1 USPATFULL
CN Butanoic acid, 4-[4-[[(2,4-dinitrophenyl)[2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)





RN 816430-11-2 USPATFULL
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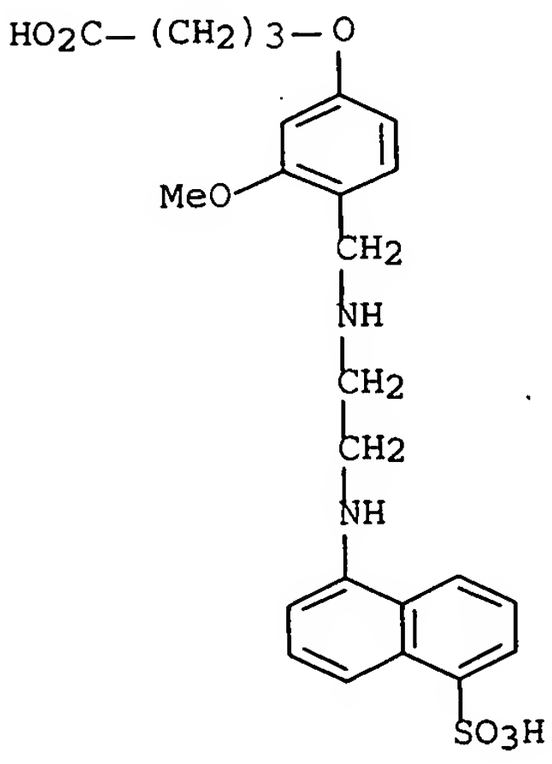

RN 816430-11-2 USPATFULL
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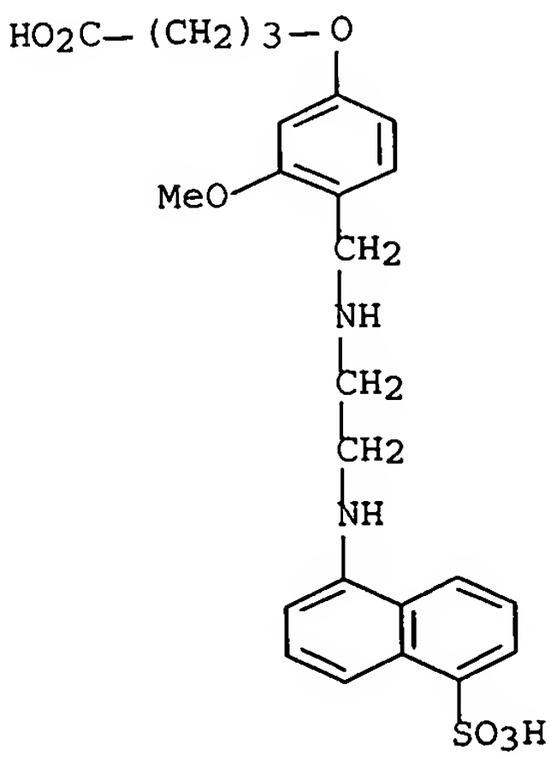
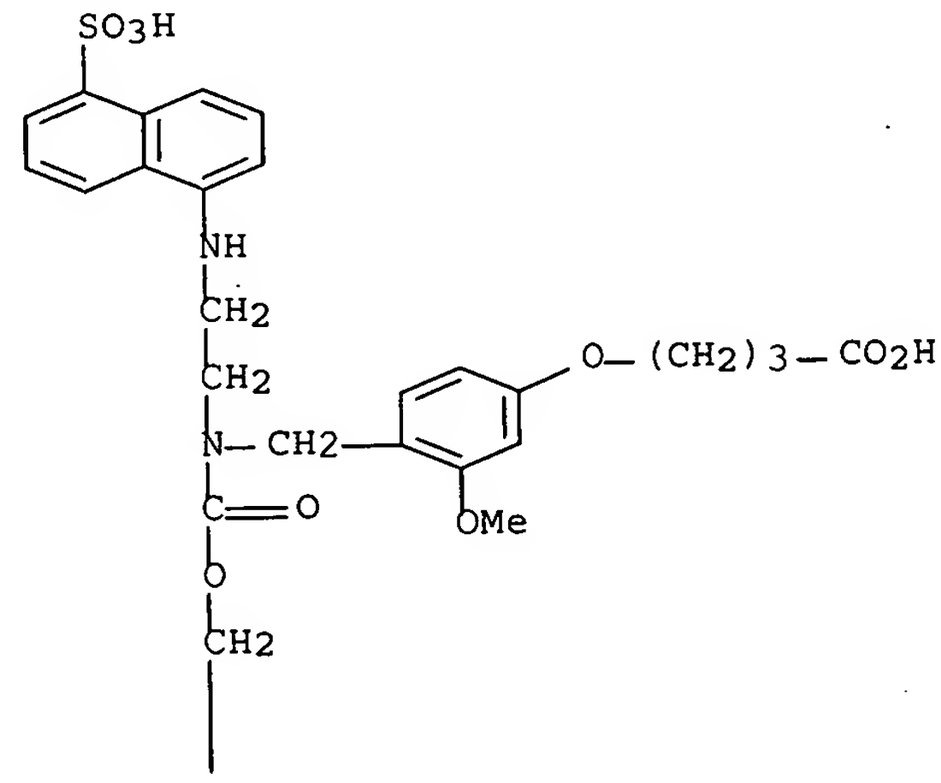
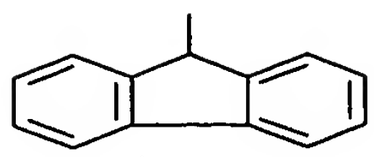
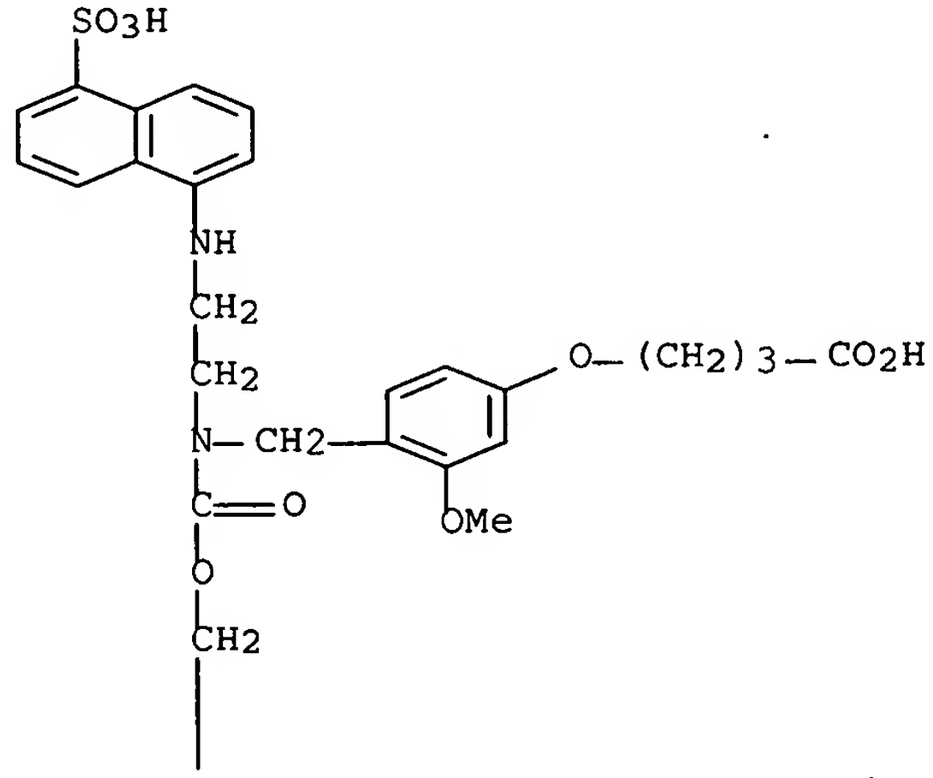


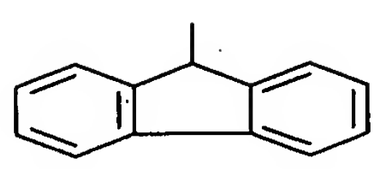
RN 816430-12-3 USPATFULL
CN Butanoic acid, 4-[4-[[[(9H-fluoren-9-ylmethoxy)carbonyl][2-[(5-sulfo-1-naphthalenyl)amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)





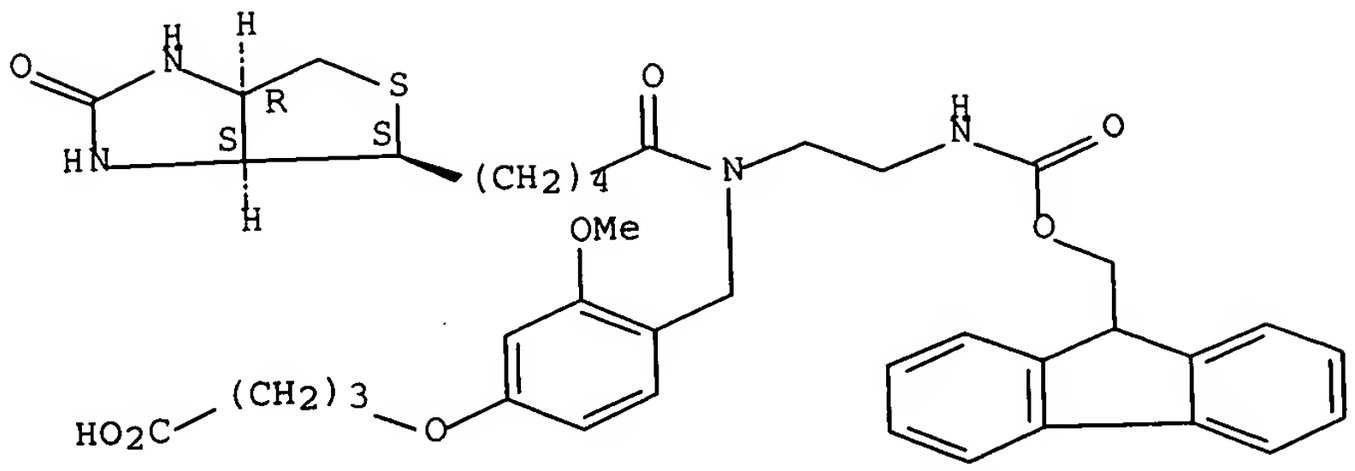
RN 816430-12-3 USPATFULL
CN Butanoic acid, 4-[4-[[[(9H-fluoren-9-ylmethoxy)carbonyl][2-[(5-sulfo-1-naphthalenyl)amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)





RN 816430-14-5 USPATFULL
CN Butanoic acid, 4-[4-[[[2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]ethyl][5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L15 ANSWER 9 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2002:230828 USPATFULL Full-text

TITLE: Methods for solid phase synthesis of mercapto compounds and derivatives, combinatorial libraries thereof and compositions obtained thereby

INVENTOR(S): Patel, Dinesh V., Fremont, CA, United States
Ngu, Khehyong, Lawrenceville, NJ, United States
Zhou, Jianping, Mountain View, CA, United States

PATENT ASSIGNEE(S): Versicor, Inc., Fremont, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6448058	B1	20020910	
APPLICATION INFO.:	US 1998-151608		19980911	(9)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 1997-58744P	19970912	(60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Weber, Jon P.
LEGAL REPRESENTATIVE: Morrison & Foerster LLP
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1726

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods of preparing combinatorial libraries of mercapto (thiol) compounds them and compositions obtained therefrom are disclosed. The compounds are synthesized on a solid support. Following synthesis, the compounds are optionally cleaved from the support. One such method of synthesis involves attack of an S-protected nucleophile on a resin functionalized with a leaving group. The invention also provides for screening the mercapto compounds for bioactive compounds; in particular, for inhibitors of MMPs.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

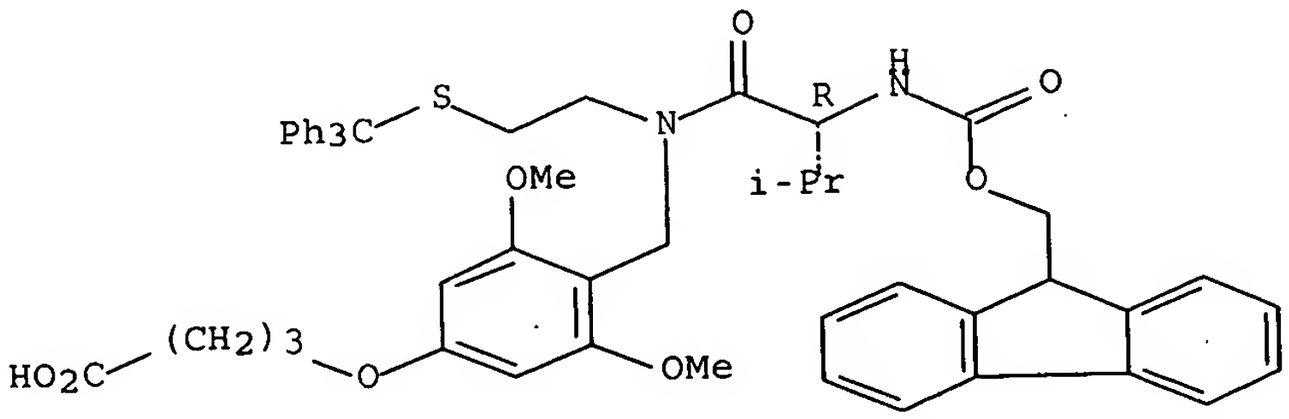
IT 454466-70-7DP, resin-bound 454466-71-8DP, resin-bound
(solid phase synthesis of mercapto compds. and derivs. and combinatorial libraries)

RN 454466-70-7 USPATFULL

CN Butanoic acid, 4-[4-[[[(2R)-2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-3-methyl-1-oxobutyl][2-[(triphenylmethyl)thio]ethyl]amino]methyl]-3,5-

dimethoxyphenoxy]- (9CI) (CA INDEX NAME)

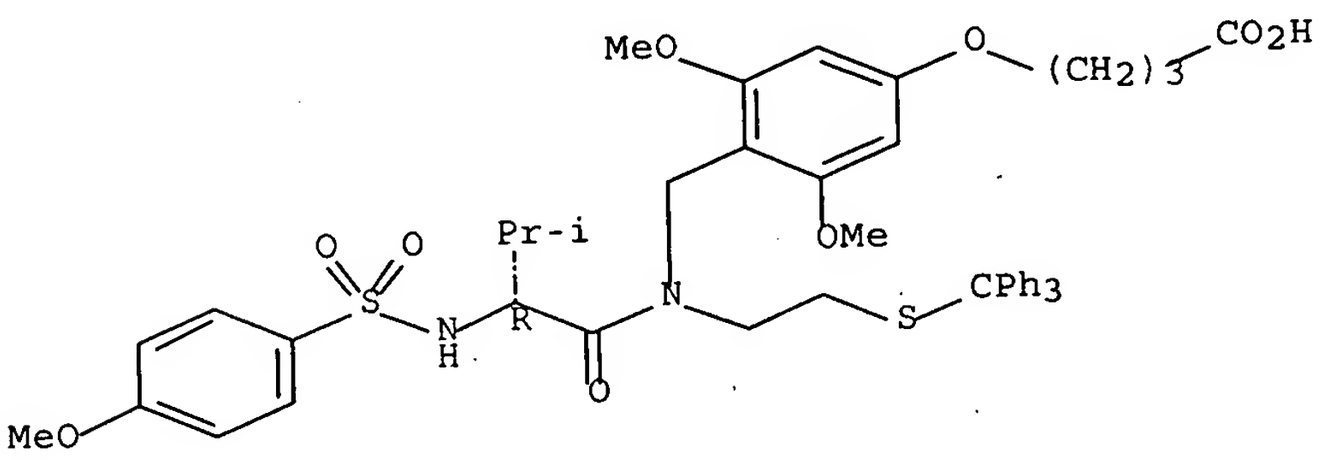
Absolute stereochemistry.



RN 454466-71-8 USPATFULL

CN Butanoic acid, 4-[3,5-dimethoxy-4-[[[(2R)-2-[[(4-methoxyphenyl)sulfonyl]amino]-3-methyl-1-oxobutyl][2-[(triphenylmethyl)thio]ethyl]amino]methyl]phenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L15 ANSWER 10 OF 10 USPATFULL on STN

ACCESSION NUMBER: 2001:142380 USPATFULL Full-text

TITLE: Methods for solid-phase synthesis of hydroxylamine compounds and derivatives, and combinatorial libraries thereof

INVENTOR(S): Patel, Dinesh V., Fremont, CA, United States
Ngu, Khehyong, Lawrenceville, NJ, United States

PATENT ASSIGNEE(S): Versicor, Inc., Fremont, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6281245	B1	20010828
APPLICATION INFO.:	US 1998-74035		19980506 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1997-958638, filed on 27 Oct 1997		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-47468P	19970523 (60)

US 1996-29788P 19961028 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Weddington, Kevin E.
LEGAL REPRESENTATIVE: Morrison & Foerster LLP
NUMBER OF CLAIMS: 27
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 34 Drawing Figure(s); 34 Drawing Page(s)
LINE COUNT: 2485
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

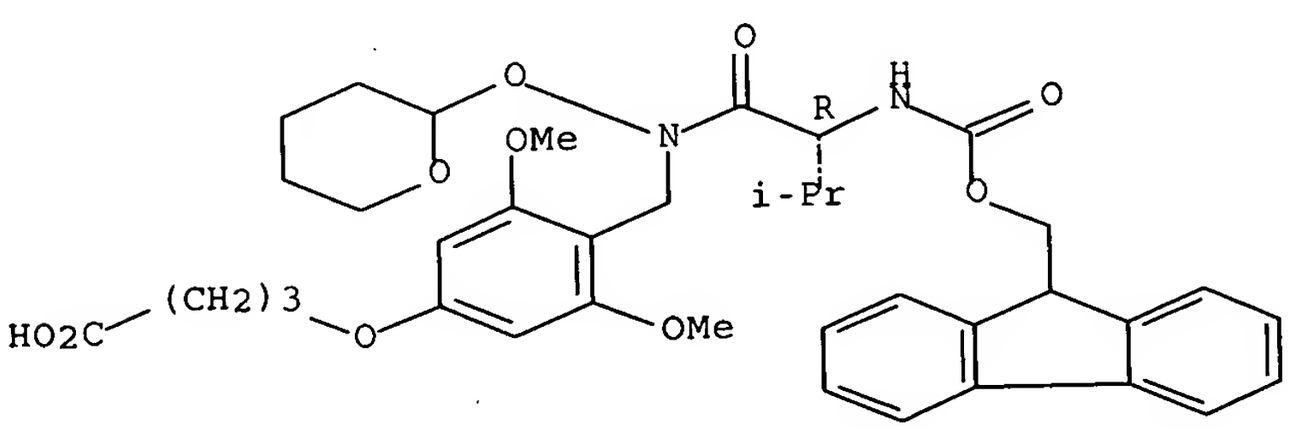
AB A novel method for generating hydroxylamine, hydroxamic acid, hydroxyurea, and hydroxylsulfonamide compounds is disclosed. The method involves the nucleophilic attack of an alkoxyamine on a suitable solid phase support. Techniques of combinatorial chemistry can then be applied to the immobilized alkoxyamine to generate a diverse set of compounds. Cleavage of the compounds from the support yields a library of hydroxylamine or hydroxylamine derivative compounds, which can be screened for biological activity (e.g., inhibition of metalloproteinases).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 249535-77-1DP, resin-bound 249535-78-2DP, resin-bound
(solid-phase synthesis of hydroxylamine compds. and derivs. and combinatorial libraries)

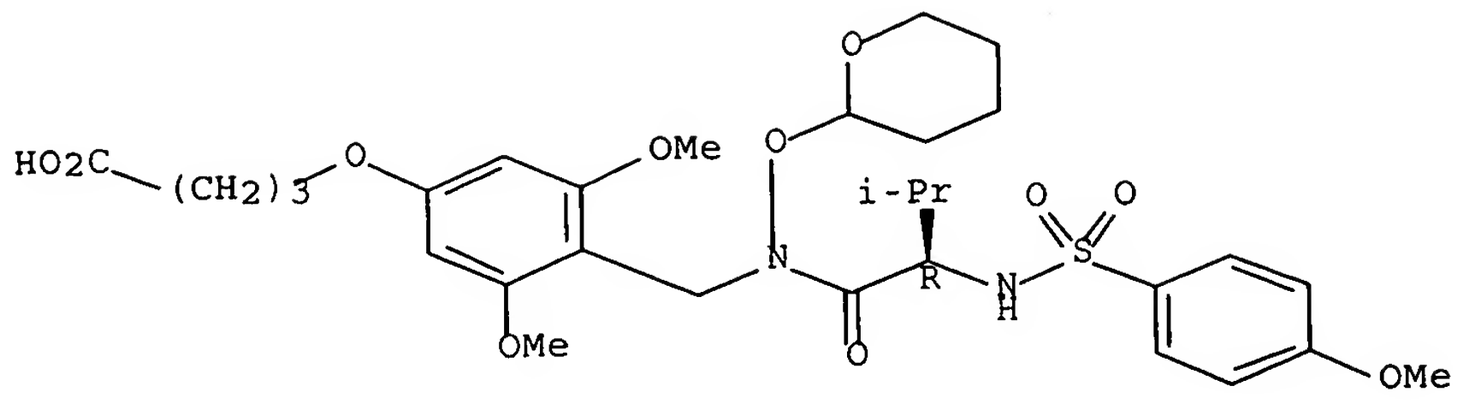
RN 249535-77-1 USPATFULL
CN Butanoic acid, 4-[4-[[[(2R)-2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-3-methyl-1-oxobutyl][(tetrahydro-2H-pyran-2-yl)oxy]amino]methyl]-3,5-dimethoxyphenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 249535-78-2 USPATFULL
CN Butanoic acid, 4-[3,5-dimethoxy-4-[[[(2R)-2-[[(4-methoxyphenyl)sulfonyl]amino]-3-methyl-1-oxobutyl][(tetrahydro-2H-pyran-2-yl)oxy]amino]methyl]phenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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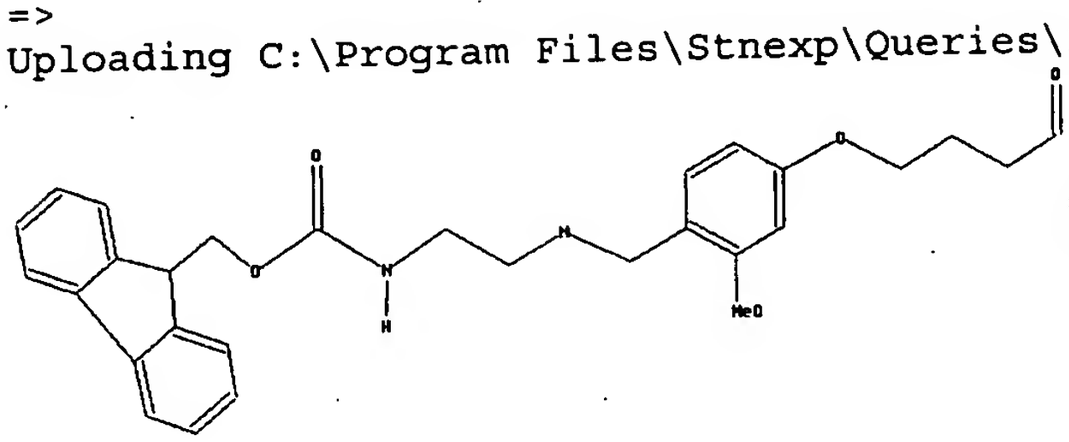

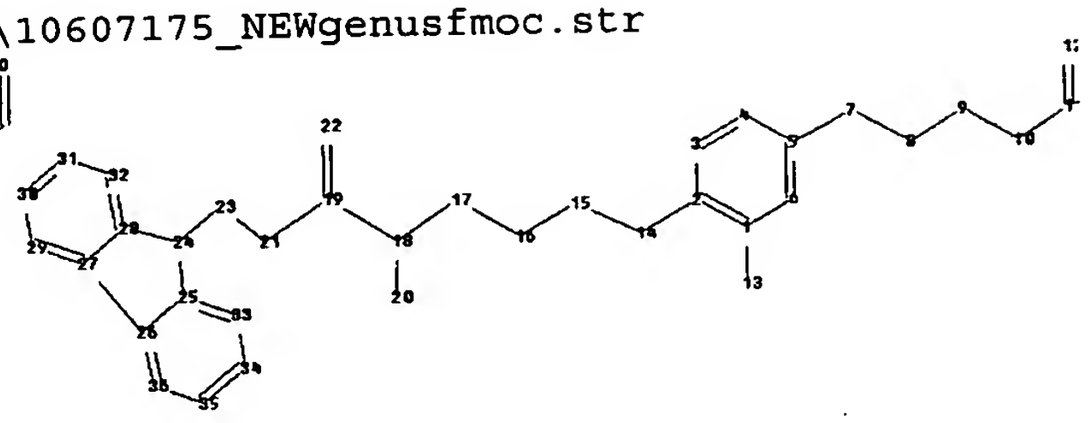

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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
ring nodes :
1 2 3 4 5 6 24 25 26 27 28 29 30 31 32 33 34 35 36
chain bonds :
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18-20 19-21 19-22 21-23 23-24
ring bonds :
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29
28-32 29-30 30-31 31-32 33-34 34-35 35-36
exact/norm bonds :
5-7 7-8 11-12 14-15 15-16 17-18 18-19 19-21 19-22 21-23
exact bonds :
1-13 2-14 8-9 9-10 10-11 16-17 18-20 23-24 24-25 24-28 26-27
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 25-26 25-33 26-36 27-28 27-29 28-32 29-30 30-
31
31-32 33-34 34-35 35-36
isolated ring systems :
containing 1 : 24 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS
21:CLASS 22:CLASS 23:CLASS 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom
30:Atom 31:Atom
32:Atom 33:Atom 34:Atom 35:Atom 36:Atom

L16 STRUCTURE UPLOADED

=> **s l16 full**
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FULL SCREEN SEARCH COMPLETED - 91 TO ITERATE

100.0% PROCESSED 91 ITERATIONS 6 ANSWERS
SEARCH TIME: 00.00.01

L17 6 SEA SSS FUL L16

=> **file medline, caplus, wpids, uspatfull**

=> s l17
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SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L18 7 L17

=> **d l18 1-7 ibib, abs, hitstr**

L18 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:2014 CAPLUS Full-text
DOCUMENT NUMBER: 142:94138
TITLE: Method and building blocks for preparing C-terminally labeled peptides
INVENTOR(S): White, Peter David; Beythien, Jorg Karl Wilheim
PATENT ASSIGNEE(S): UK
SOURCE: U.S. Pat. Appl. Publ., 21 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

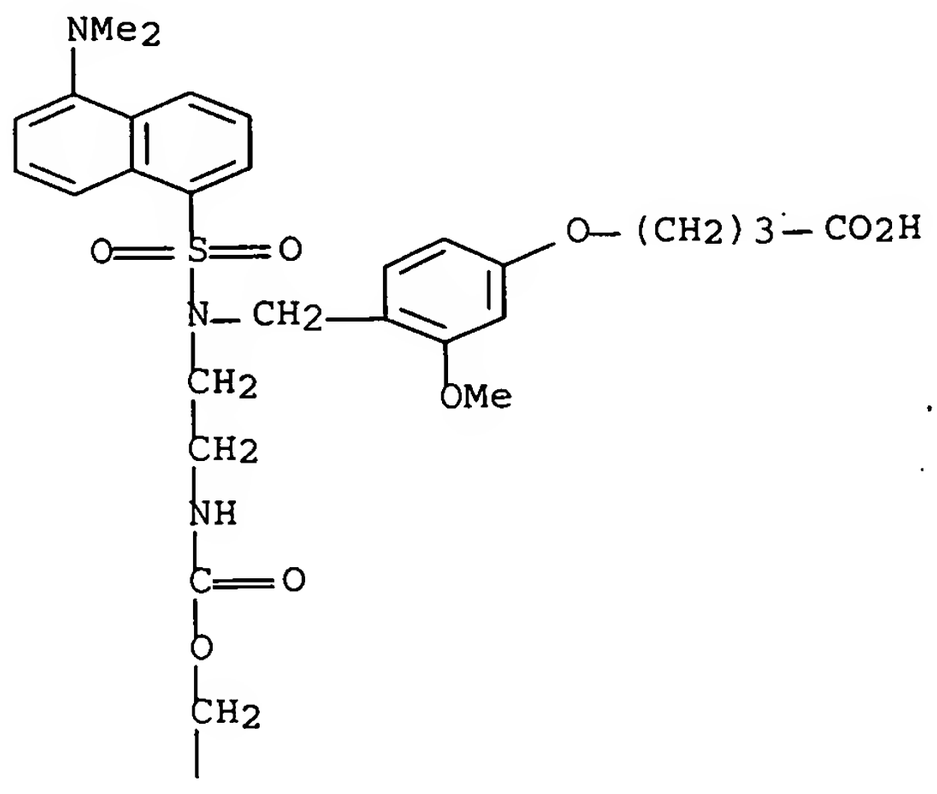
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004265949	A1	20041230	US 2003-607175	20030626
PRIORITY APPLN. INFO.:			US 2003-607175	20030626

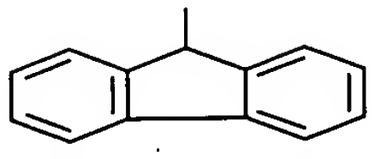
OTHER SOURCE(S): MARPAT 142:94138
AB The invention relates to a solid-phase method for preparing C-terminally labeled peptides and building blocks to be used in this synthesis. The building blocks have formula A-N(Lm-B)Kn-C, where A is a functionality for the attachment to a solid support or a functionality already comprising a solid support, B is a functionality for the attachment of one or more amino acids or peptides or a functionality already comprising one or more amino acids or peptides, C is a functionality for the attachment of one or more labels or a functionality already comprising one or more labels, K, L are independently (un)substituted alkyl chains with at least two C-atoms (one or more non-

neighboring C-atoms may be substituted by O, NH, alkyl- or arylimino, S, CO, an ester or amide group and/or neighboring C-atoms may be connected via a double or triple bond), and m, n are 0 or 1 with m + n ≥ 1. Thus, N-biotinyl-N'-Fmoc-ethylenediamine-MPB-AM-resin [MPB = [4-(3-carboxypropoxy)-2-methoxyphenyl]methyl; Fmoc = fluorenylmethoxycarbonyl] was prepared and applied to the synthesis of H-Asp-Glu-Val-Asp-Ala-Arg-NHCH2CH2NH-biotinyl.

IT 816430-05-4DP, resin-bound 816430-07-6DP, resin-bound
816430-10-1DP, resin-bound 816430-14-5DP, resin-bound
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(solid-phase synthesis of C-terminally labeled peptides)

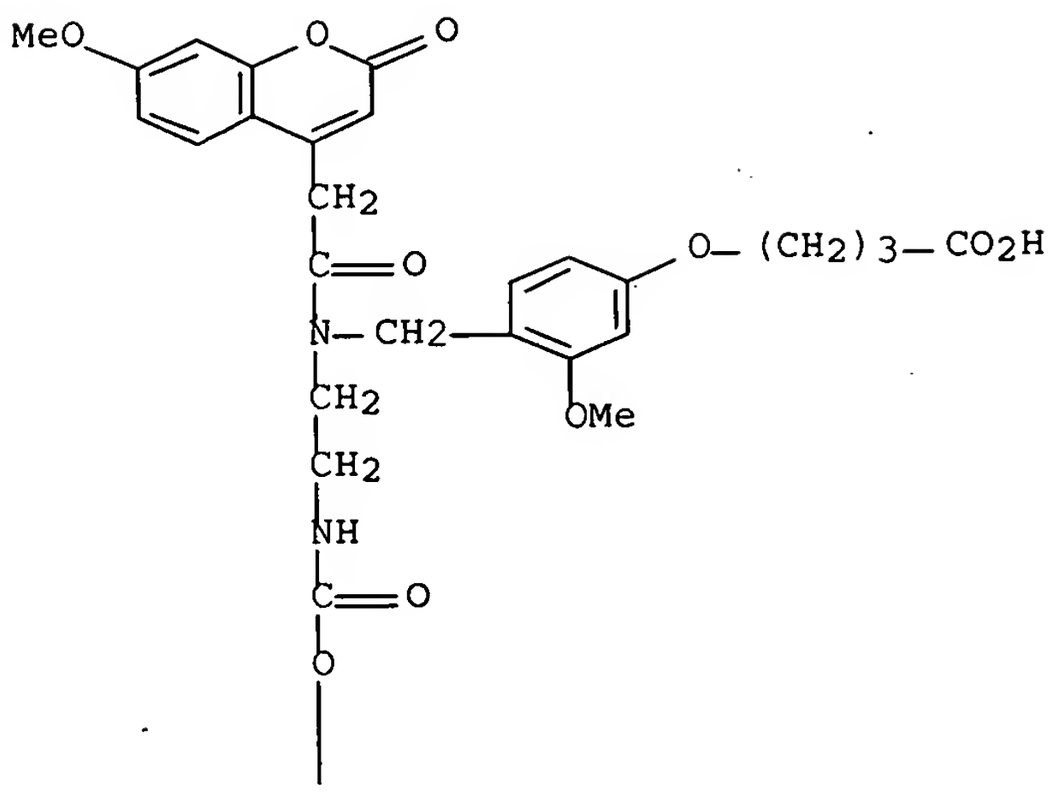
RN 816430-05-4 CAPLUS
CN Butanoic acid, 4-[4-[[[[5-(dimethylamino)-1-naphthalenyl]sulfonyl][2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)



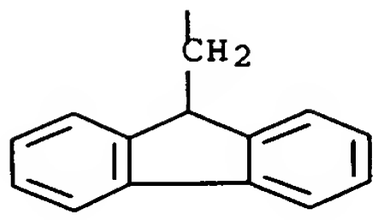


RN 816430-07-6 CAPLUS
CN Butanoic acid, 4-[4-[[[2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]ethyl][(7-methoxy-2-oxo-2H-1-benzopyran-4-yl)acetyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A

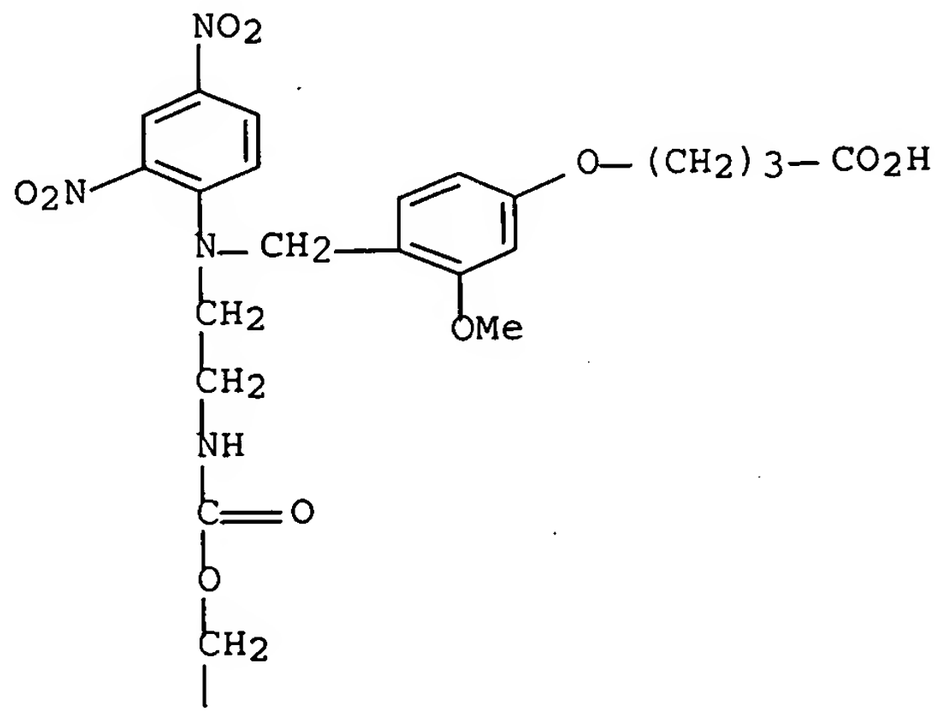


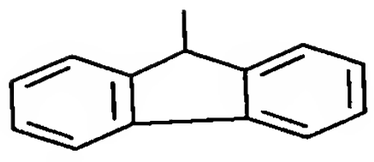
PAGE 2-A



RN 816430-10-1 CAPLUS
CN Butanoic acid, 4-[4-[[(2,4-dinitrophenyl)[2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)

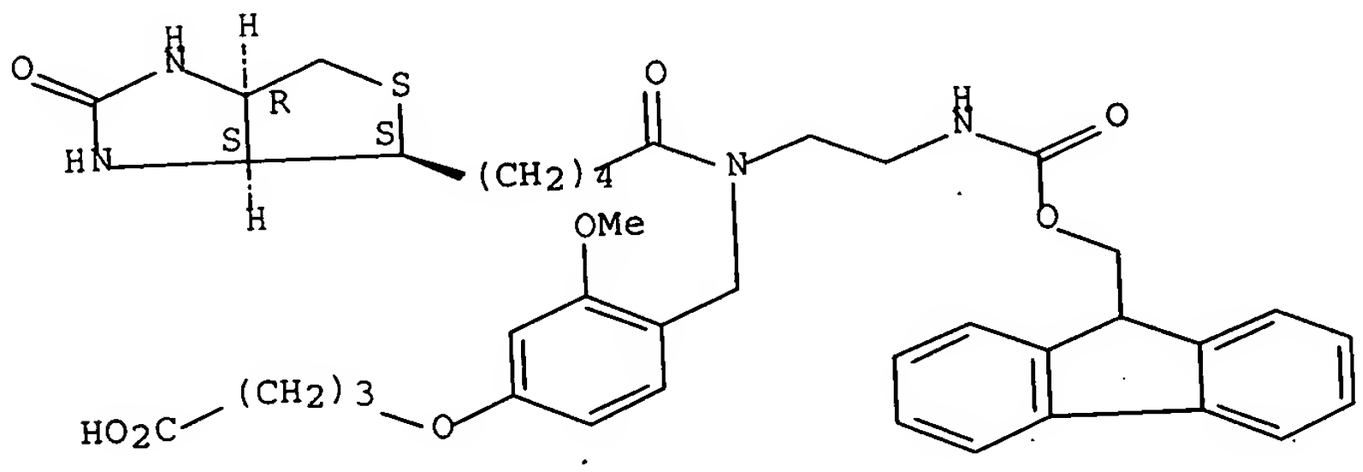
PAGE 1-A





RN 816430-14-5 CAPLUS
CN Butanoic acid, 4-[4-[[[2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]ethyl][5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L18 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:688514 CAPLUS Full-text
DOCUMENT NUMBER: 137:201610
TITLE: Methods for solid phase synthesis of mercapto compounds and derivatives and combinatorial libraries
INVENTOR(S): Patel, Dinesh V.; Ngu, Khehyong; Zhou, Jianping
PATENT ASSIGNEE(S): Versicor, Inc., USA
SOURCE: U.S., 33 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 6448058	B1	20020910	US 1998-151608		19980911
			US 1997-58744P	P	19970912

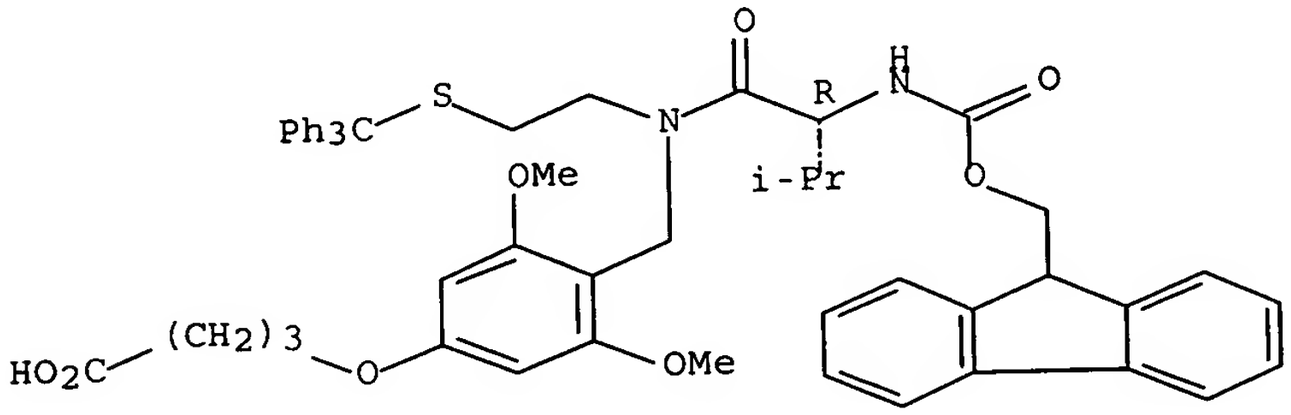
PRIORITY APPLN. INFO.:
OTHER SOURCE(S): MARPAT 137:201610
AB Methods of preparing combinatorial libraries of mercapto (thiol) compds. HSCH2CHR3CO(NR4CHR5CO)mNR6R7 [R3-R7 = H, (hetero)alkyl, (hetero)aryl, or heterocyclyl] are disclosed. The invention also provides for screening the mercapto compds. for bioactive compds., in particular, for inhibitors of

matrix metalloproteinases. Thus, HSCH2CHBuCO-Leu-NHC6H4NO2-p and HSCH2CHBuCO-Val-prolinol were prepared by the solid-phase method and showed IC50 values < 10 μM against peptide deformylase.

IT 454466-70-7DP, resin-bound
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(solid phase synthesis of mercapto compds. and derivs. and combinatorial libraries)

RN 454466-70-7 CAPLUS
CN Butanoic acid, 4-[4-[[[(2R)-2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-3-methyl-1-oxobutyl][2-[(triphenylmethyl)thio]ethyl]amino]methyl]-3,5-dimethoxyphenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:627227 CAPLUS Full-text
DOCUMENT NUMBER: 135:180955
TITLE: Methods for solid-phase synthesis of hydroxylamine compounds and derivatives and combinatorial libraries
INVENTOR(S): Patel, Dinesh V.; Ngu, Khehyong
PATENT ASSIGNEE(S): Versicor, Inc., USA
SOURCE: U.S., 76 pp., Cont.-in-part of U.S. Ser. No. 958,638.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6281245	B1	20010828	US 1998-74035	19980506
US 2001053555	A1	20011220	US 1997-958638	19971027
US 6541276	B2	20030401		
WO 9957097	A2	19991111	WO 1999-US9996	19990506
WO 9957097	A3	20000309		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,

ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9939748	A	19991123	AU 1999-39748		19990506
PRIORITY APPLN. INFO.:			US 1996-29788P	P	19961028
			US 1997-47468P	P	19970523
			US 1997-958638	A2	19971027
			US 1998-74035	A	19980506
			WO 1999-US9996	W	19990506

OTHER SOURCE(S): MARPAT 135:180955

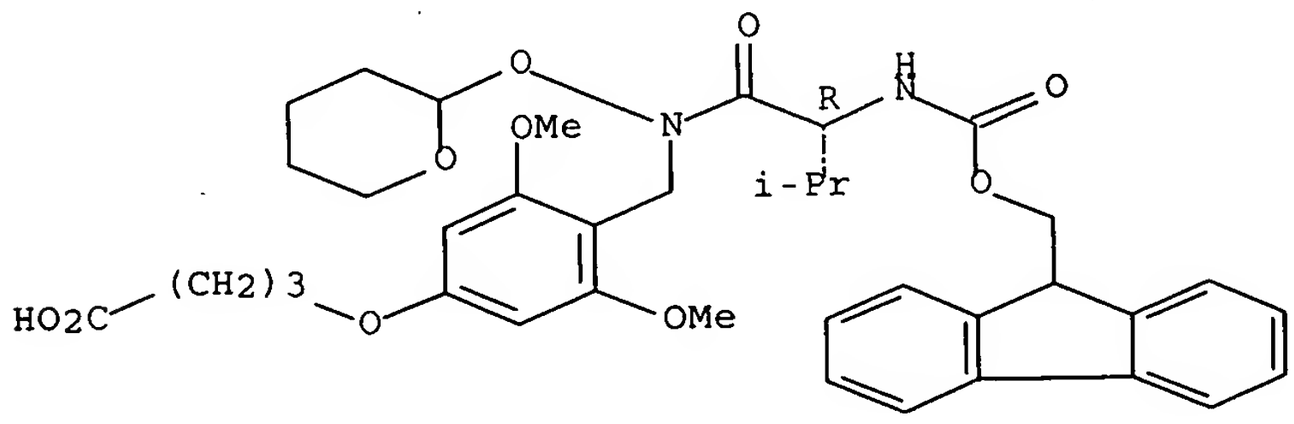
AB Hydroxylamine compds. HONHCOCHR1NR2COR3, HONHCOCHR1NR2CONR3R4, and HONHCOCHR1CHR2CONR3R4 (R1-R4 = H, alkyl, heteroalkyl, aryl, heteroaryl, heterocyclyl and (non)naturally occurring amino acid side chains) or stereoisomers, protected derivs., or salts were prepared Techniques of combinatorial chemical can be applied to immobilized alkoxyamines to generate a diverse set of compds. Thus, (S,S)-HONHCOCH2CH(CH2CH2SMe)CONHCH(Bu-i)CONHC6H4NO2-p was prepared and assayed for peptide deformylase and antimicrobial activities [IC50 = 11 nM and 64 μM/mL (S. aureus), resp.].

IT 249535-77-1DP, resin-bound
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(solid-phase synthesis of hydroxylamine compds. and derivs. and combinatorial libraries)

RN 249535-77-1 CAPLUS

CN Butanoic acid, 4-[4-[[[(2R)-2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-3-methyl-1-oxobutyl][(tetrahydro-2H-pyran-2-yl)oxy]amino]methyl]-3,5-dimethoxyphenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:	1999:723015 CAPLUS Full-text
DOCUMENT NUMBER:	131:322926
TITLE:	Methods for solid-phase synthesis of hydroxylamine compounds and derivatives and combinatorial libraries
INVENTOR(S):	Patel, Dinesh V.; Ngu, Khehyong
PATENT ASSIGNEE(S):	Versicor, Inc., USA
SOURCE:	PCT Int. Appl., 122 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	3
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9957097	A2	19991111	WO 1999-US9996	19990506
WO 9957097	A3	20000309		

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RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6281245	B1	20010828	US 1998-74035	19980506
AU 9939748	A	19991123	AU 1999-39748	19990506
PRIORITY APPLN. INFO.:			US 1998-74035	A 19980506
			US 1996-29788P	P 19961028
			US 1997-47468P	P 19970523
			US 1997-958638	A2 19971027
			WO 1999-US9996	W 19990506

OTHER SOURCE(S): MARPAT 131:322926

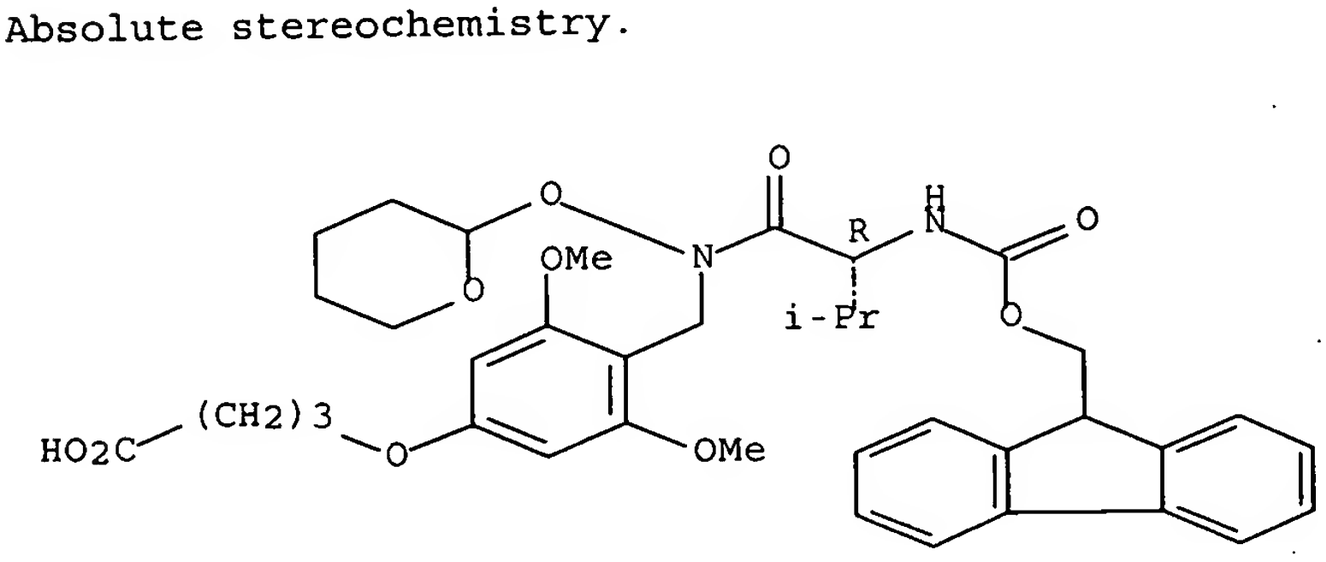
AB Hydroxylamine compds. HONHCOCH2CH(CH2CH2-X-Me)CO-L10-CO-R2 [X = CH2, S; L10 = NHCHMe, NHCH(Bu-i), NHCH(CH2)Ph and related residues of optically active amino acids; R2 = NH2, piperidino, morpholino, 4-methylpiperazino, etc.] and all stereoisomers, protected derivs., and salts were prepared Techniques of combinatorial chemical can be applied to immobilized alkoxyamines to generate a diverse set of compds. Thus, (S,S)-HONHCOCH2CH(CH2CH2SMe)CONHCH(Bu-i)CONHC6H4NO2-p was prepared and assayed for peptide deformylase and antimicrobial activities [IC50 = 11 nM and 64 μM/mL (S. aureus), resp.].

IT 249535-77-1DP, resin-bound
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(solid-phase synthesis of hydroxylamine compds. and derivs. and combinatorial libraries)

RN 249535-77-1 CAPLUS

CN Butanoic acid, 4-[4-[[[(2R)-2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-3-methyl-1-oxobutyl][(tetrahydro-2H-pyran-2-yl)oxy]amino]methyl]-3,5-dimethoxyphenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L18 ANSWER 5 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2004:334867 USPATFULL Full-text

TITLE: Method and building blocks for preparing C-terminally labelled peptides

INVENTOR(S): White, Peter David, Southwell, UNITED KINGDOM
Beythien, Jorg Karl Wilheim, Budendorf, SWITZERLAND

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004265949	A1	20041230	
APPLICATION INFO.:	US 2003-607175	A1	20030626	(10)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: FRELING E. BAKER, BROWN MARTIN HALLER & MCCLAIM, 1660 UNION STREET, SAN DIEGO, CA, 92101

NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Page(s)
LINE COUNT: 1028

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

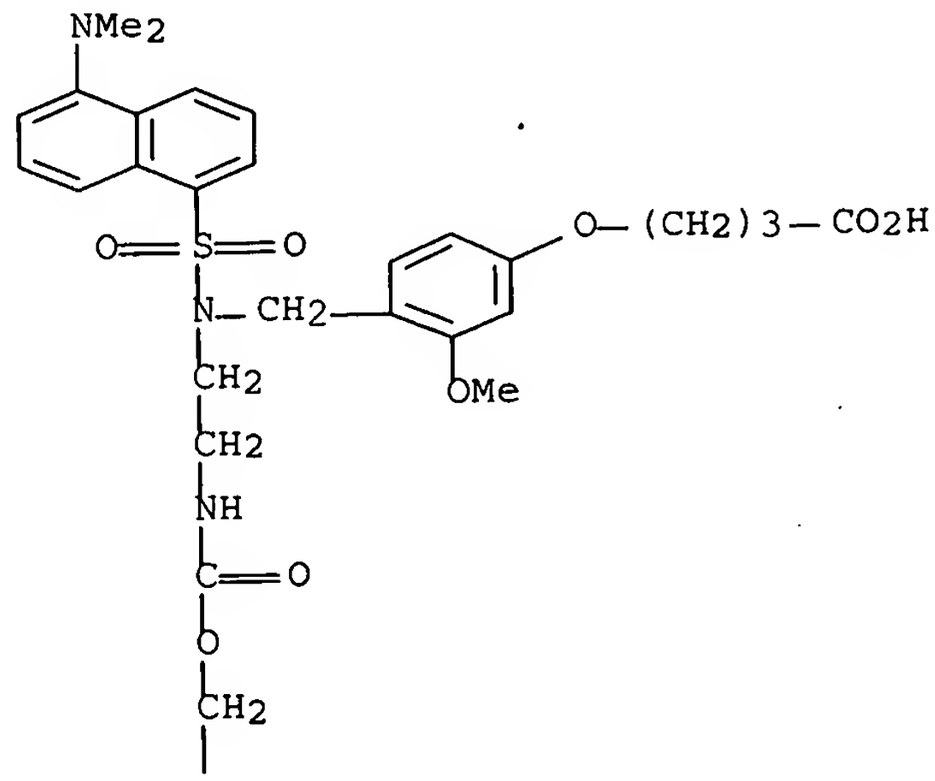
AB A method for preparing C-terminally labelled peptides and building blocks to be used in this synthesis includes a trivalent nitrogen atom having at least one device for attachment to a solid support, one device for the attachment of amino acids and one device for attachment of a label, whereby the device for the attachment of amino acids and/or the device for the attachment of a label is a linker, e.g. an alkyl- or polyethyleneglycol- linker.

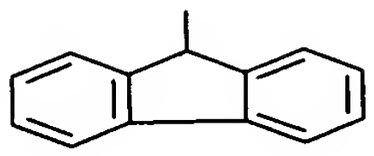
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 816430-05-4DP, resin-bound 816430-07-6DP, resin-bound
816430-10-1DP, resin-bound 816430-14-5DP, resin-bound
(solid-phase synthesis of C-terminally labeled peptides)

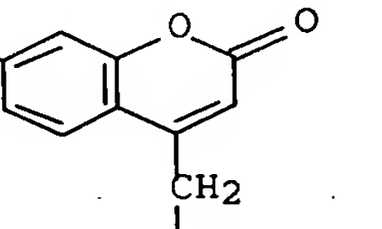
RN 816430-05-4 USPATFULL

CN Butanoic acid, 4-[4-[[[[5-(dimethylamino)-1-naphthalenyl]sulfonyl][2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)

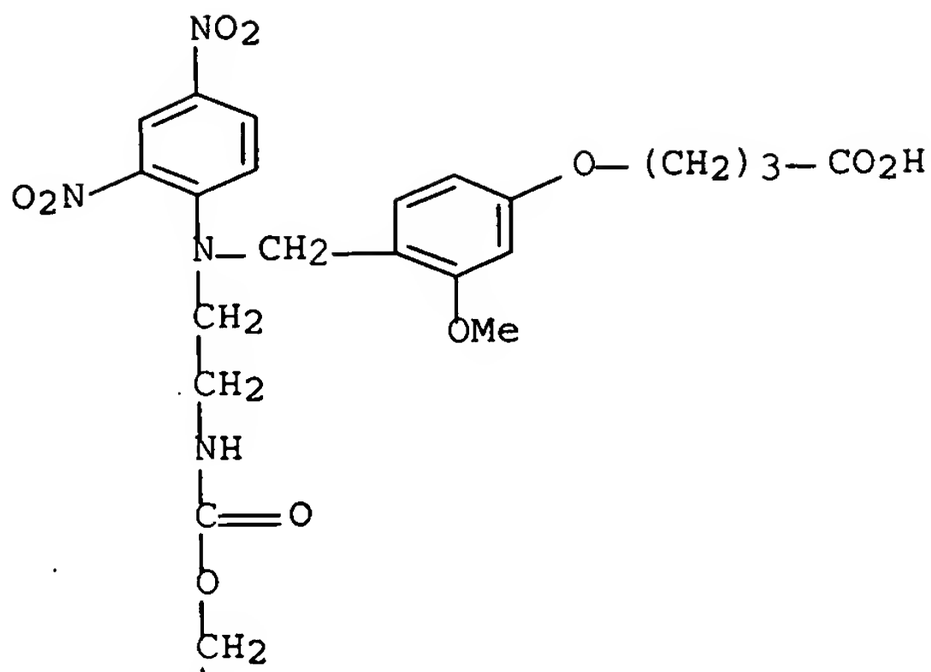


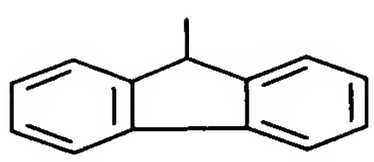


RN 816430-07-6 USPATFULL
CN Butanoic acid, 4-[4-[[[2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]ethyl][(7-methoxy-2-oxo-2H-1-benzopyran-4-yl)acetyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)



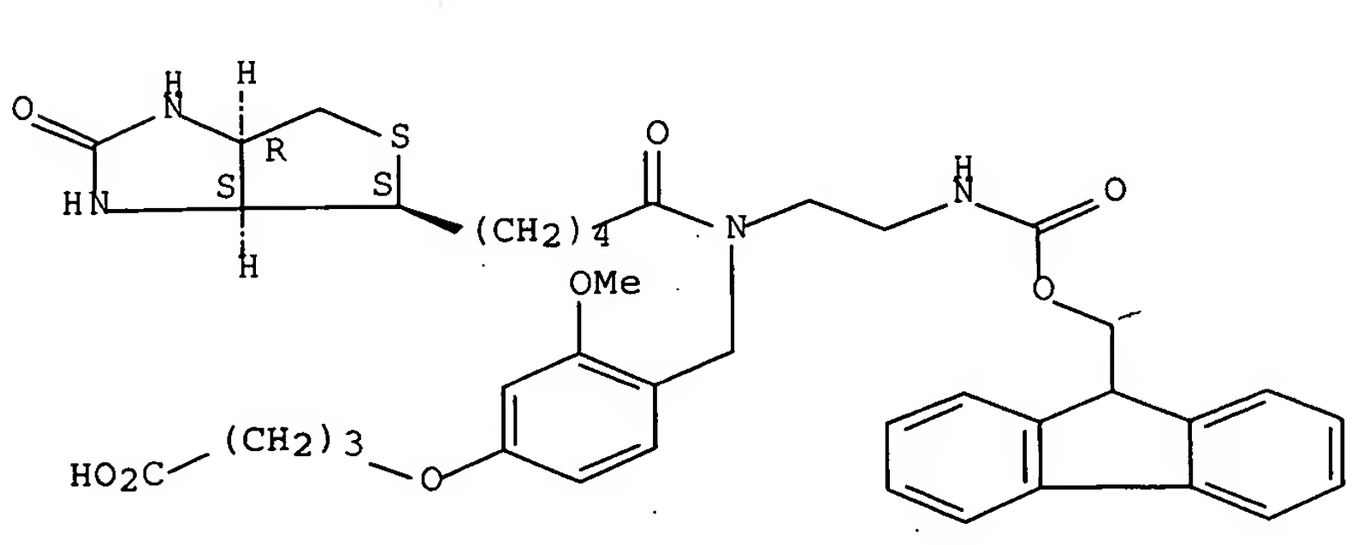
RN 816430-10-1 USPATFULL
CN Butanoic acid, 4-[4-[[(2,4-dinitrophenyl)[2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)





RN 816430-14-5 USPATFULL
CN Butanoic acid, 4-[4-[[[2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]ethyl][5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L18 ANSWER 6 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2002:230828 USPATFULL Full-text
TITLE: Methods for solid phase synthesis of mercapto compounds and derivatives, combinatorial libraries thereof and

compositions obtained thereby

INVENTOR(S): Patel, Dinesh V., Fremont, CA, United States
Ngu, Khehyong, Lawrenceville, NJ, United States
Zhou, Jianping, Mountain View, CA, United States

PATENT ASSIGNEE(S): Versicor, Inc., Fremont, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6448058	B1	20020910	
APPLICATION INFO.:	US 1998-151608		19980911	(9)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 1997-58744P	19970912	(60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Weber, Jon P.
LEGAL REPRESENTATIVE: Morrison & Foerster LLP
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1726
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

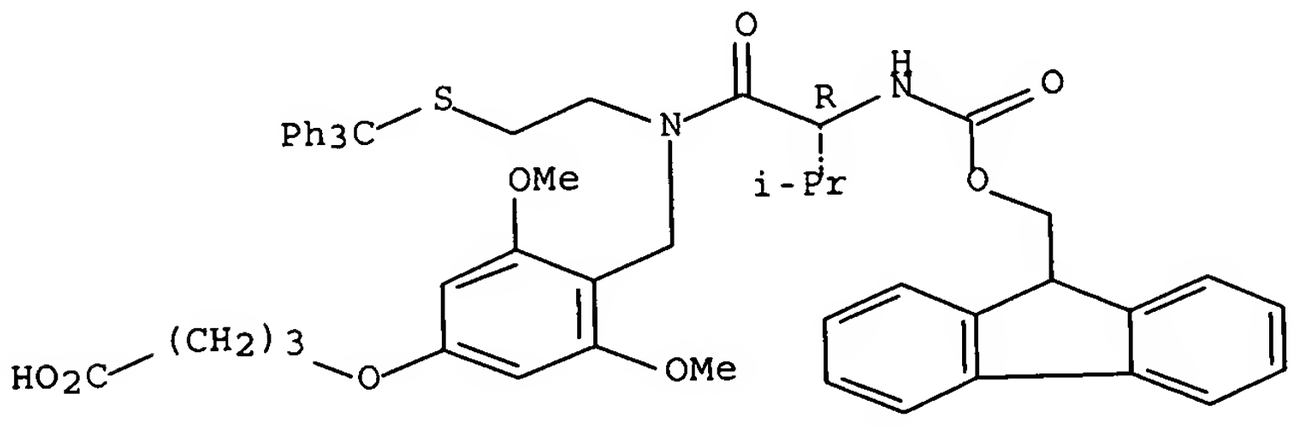
AB Methods of preparing combinatorial libraries of mercapto (thiol) compounds them and compositions obtained therefrom are disclosed. The compounds are synthesized on a solid support. Following synthesis, the compounds are optionally cleaved from the support. One such method of synthesis involves attack of an S-protected nucleophile on a resin functionalized with a leaving group. The invention also provides for screening the mercapto compounds for bioactive compounds; in particular, for inhibitors of MMPs.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 454466-70-7DP, resin-bound
(solid phase synthesis of mercapto compds. and derivs. and combinatorial libraries)

RN 454466-70-7 USPATFULL
CN Butanoic acid, 4-[4-[[[(2R)-2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-3-methyl-1-oxobutyl][2-[(triphenylmethyl)thio]ethyl]amino]methyl]-3,5-dimethoxyphenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L18 ANSWER 7 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2001:142380 USPATFULL Full-text
TITLE: Methods for solid-phase synthesis of hydroxylamine compounds and derivatives, and combinatorial libraries thereof

INVENTOR(S): Patel, Dinesh V., Fremont, CA, United States
Ngu, Khehyong, Lawrenceville, NJ, United States

PATENT ASSIGNEE(S): Versicor, Inc., Fremont, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6281245	B1	20010828
APPLICATION INFO.:	US 1998-74035		19980506 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1997-958638, filed on 27 Oct 1997

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-47468P	19970523 (60)
	US 1996-29788P	19961028 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Weddington, Kevin E.
LEGAL REPRESENTATIVE: Morrison & Foerster LLP
NUMBER OF CLAIMS: 27
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 34 Drawing Figure(s); 34 Drawing Page(s)
LINE COUNT: 2485

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A novel method for generating hydroxylamine, hydroxamic acid, hydroxyurea, and hydroxylsulfonamide compounds is disclosed. The method involves the nucleophilic attack of an alkoxyamine on a suitable solid phase support. Techniques of combinatorial chemistry can then be applied to the immobilized alkoxyamine to generate a diverse set of compounds. Cleavage of the compounds from the support yields a library of hydroxylamine or hydroxylamine derivative compounds, which can be screened for biological activity (e.g., inhibition of metalloproteinases).

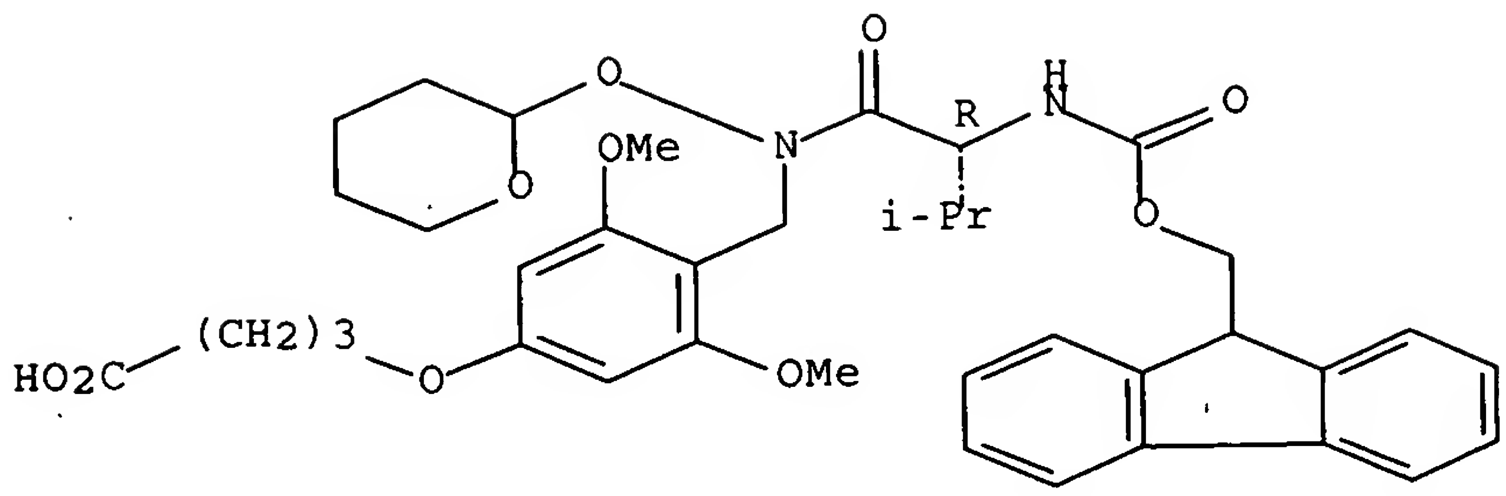
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 249535-77-1DP, resin-bound
(solid-phase synthesis of hydroxylamine compds. and derivs. and combinatorial libraries)

RN 249535-77-1 USPATFULL

CN Butanoic acid, 4-[4-[[[(2R)-2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-3-methyl-1-oxobutyl][(tetrahydro-2H-pyran-2-yl)oxy]amino]methyl]-3,5-dimethoxyphenoxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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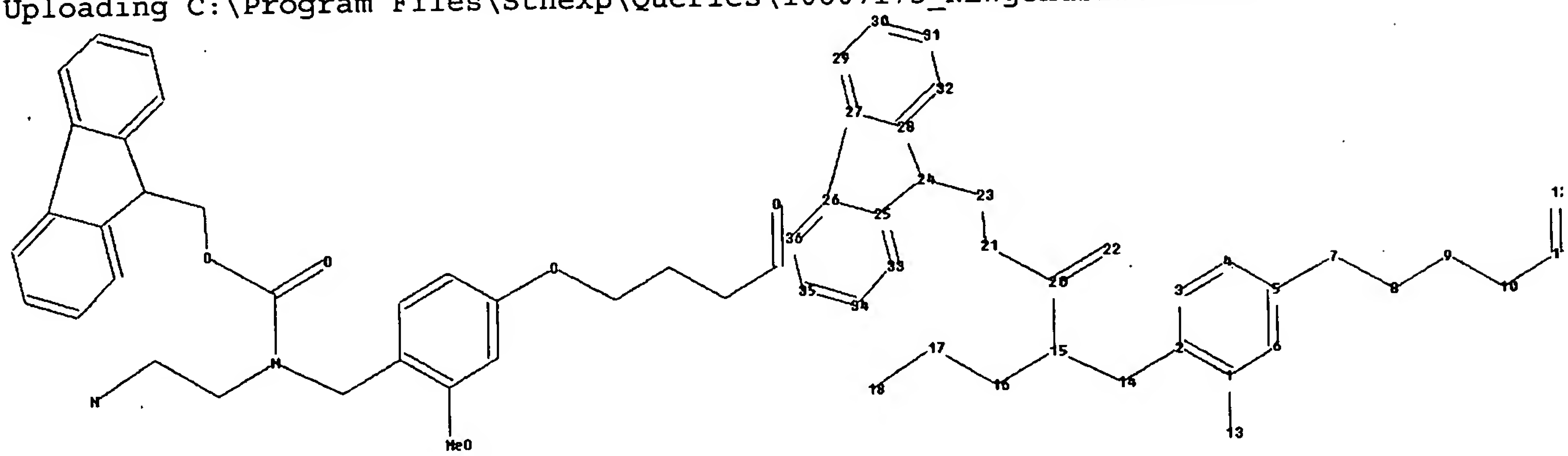

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ring nodes :
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chain bonds :
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20-21 20-22 21-23 23-24
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 24-25 24-28 25-26 25-33 26-27 26-36 27-28 27-29
28-32 29-30 30-31 31-32 33-34 34-35 35-36
exact/norm bonds :
5-7 7-8 11-12 14-15 15-16 15-20 17-18 20-21 20-22 21-23 24-25 24-28 26-27

exact bonds :
1-13 2-14 8-9 9-10 10-11 16-17 23-24
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 25-26 25-33 26-36 27-28 27-29 28-32 29-30 30-31
31-32 33-34 34-35 35-36
isolated ring systems :
containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
20:CLASS 21:CLASS
22:CLASS 23:CLASS 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom
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L19 STRUCTURE UPLOADED

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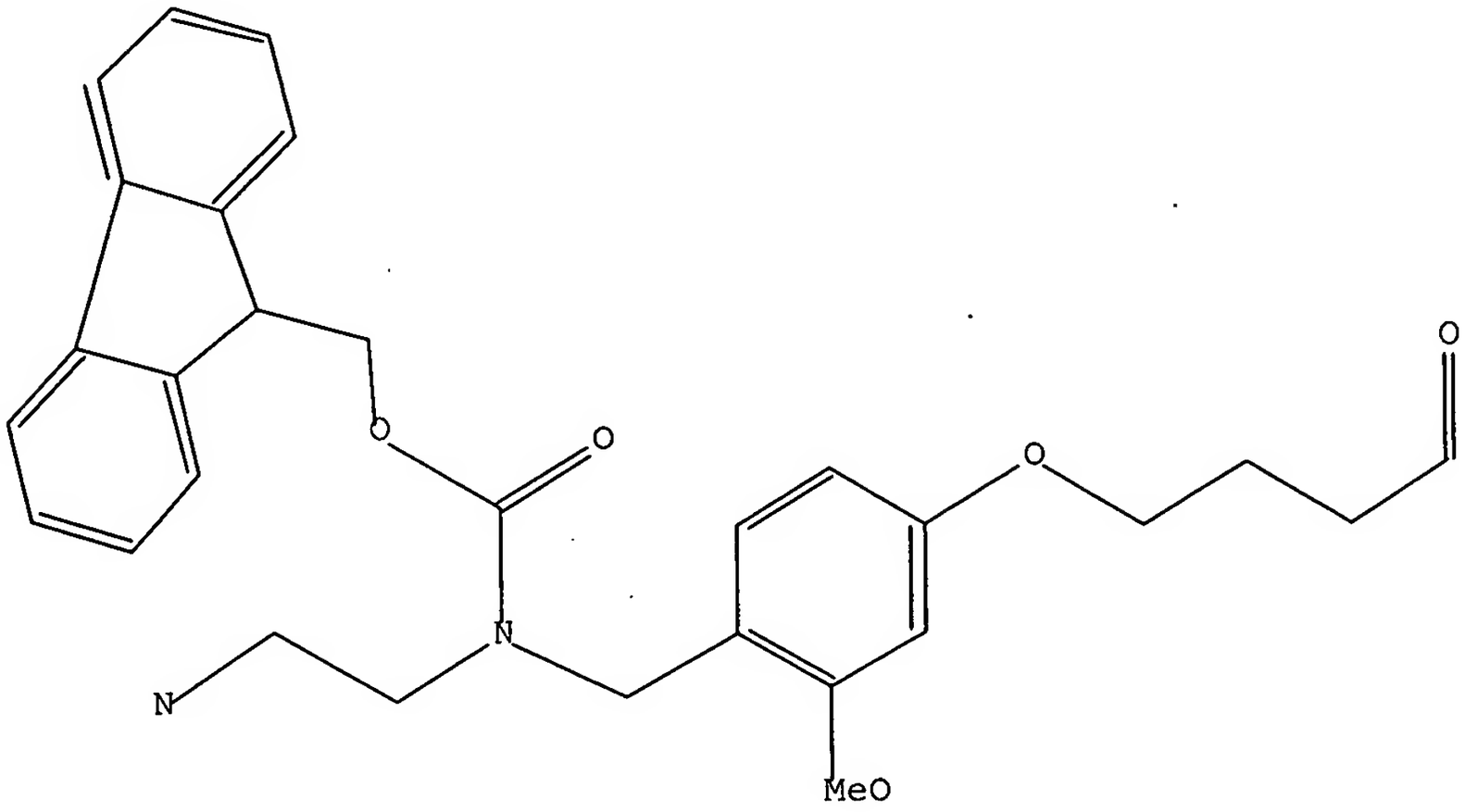
L19 HAS NO ANSWERS
L19 STR



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=> **s 120**
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SEARCH TIME: 00.00.01

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BATCH **COMPLETE**
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L21 2 L20

=> **d l21 1-2 ibib, abs**

L21 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:2014 CAPLUS Full-text
DOCUMENT NUMBER: 142:94138
TITLE: Method and building blocks for preparing C-terminally labeled peptides
INVENTOR(S): White, Peter David; Beythien, Jorg Karl Wilheim
PATENT ASSIGNEE(S): UK
SOURCE: U.S. Pat. Appl. Publ., 21 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004265949	A1	20041230	US 2003-607175	20030626
PRIORITY APPLN. INFO.:			US 2003-607175	20030626

OTHER SOURCE(S): MARPAT 142:94138

AB The invention relates to a solid-phase method for preparing C-terminally labeled peptides and building blocks to be used in this synthesis. The building blocks have formula A-N(Lm-B)Kn-C, where A is a functionality for the attachment to a solid support or a functionality already comprising a solid support, B is a functionality for the attachment of one or more amino acids or peptides or a functionality already comprising one or more amino acids or peptides, C is a functionality for the attachment of one or more labels or a functionality already comprising one or more labels, K, L are independently (un)substituted alkyl chains with at least two C-atoms (one or more non-neighboring C-atoms may be substituted by O, NH, alkyl- or arylimino, S, CO, an ester or amide group and/or neighboring C-atoms may be connected via a double or triple bond), and m, n are 0 or 1 with m + n ≥ 1. Thus, N-biotinyl-N'-Fmoc-ethylenediamine-MPB-AM-resin [MPB = [4-(3-carboxypropoxy)-2-methoxyphenyl]methyl; Fmoc = fluorenylmethoxycarbonyl] was prepared and applied to the synthesis of H-Asp-Glu-Val-Asp-Ala-Arg-NHCH2CH2NH-biotinyl.

L21 ANSWER 2 OF 2 USPATFULL on STN
ACCESSION NUMBER: 2004:334867 USPATFULL Full-text
TITLE: Method and building blocks for preparing C-terminally labelled peptides
INVENTOR(S): White, Peter David, Southwell, UNITED KINGDOM
Beythien, Jorg Karl Wilheim, Budendorf, SWITZERLAND

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004265949	A1	20041230	
APPLICATION INFO.:	US 2003-607175	A1	20030626	(10)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: FRELING E. BAKER, BROWN MARTIN HALLER & MCCLAIM, 1660

UNION STREET, SAN DIEGO, CA, 92101

NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Page(s)
LINE COUNT: 1028
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for preparing C-terminally labelled peptides and building blocks to be used in this synthesis includes a trivalent nitrogen atom having at least one device for attachment to a solid support, one device for the attachment of amino acids and one device for attachment of a label, whereby the device for the attachment of amino acids and/or the device for the attachment of a label is a linker, e.g. an alkyl- or polyethyleneglycol- linker.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> **file registry**

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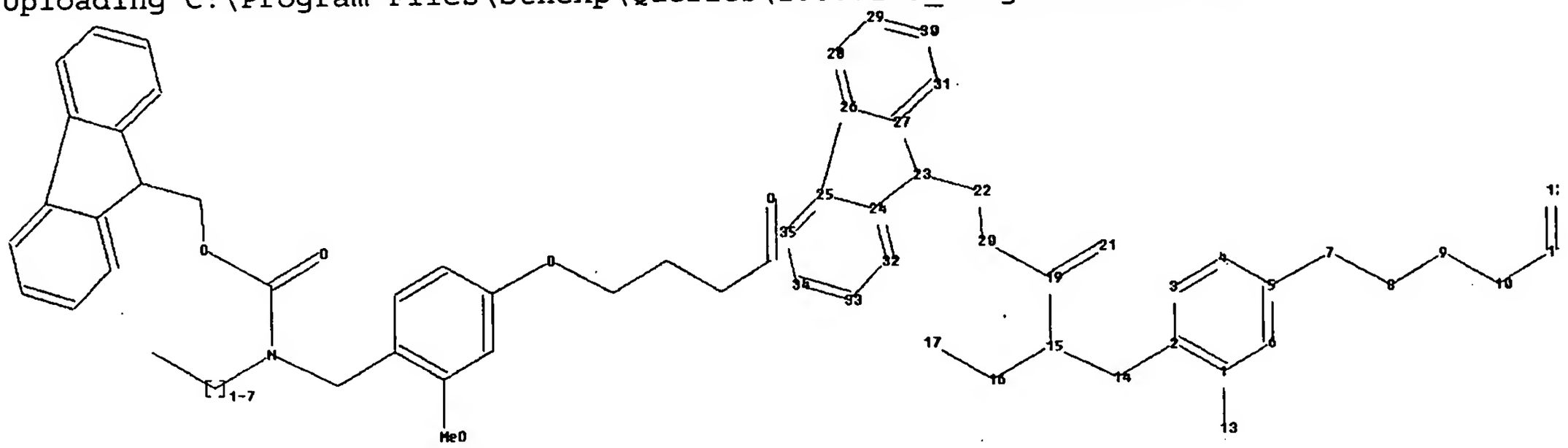

chain nodes :
7 8 9 10 11 12 13 14 15 16 17 19 20 21 22
ring nodes :
1 2 3 4 5 6 23 24 25 26 27 28 29 30 31 32 33 34 35
chain bonds :
1-13 2-14 5-7 7-8 8-9 9-10 10-11 11-12 14-15 15-16 15-19 16-17 19-20 19-21 20-22 22-23
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 23-24 23-27 24-25 24-32 25-26 25-35 26-27 26-28 27-31 28-29 29-30 30-31 32-33 33-34 34-35
exact/norm bonds :
5-7 7-8 11-12 14-15 15-16 15-19 19-20 19-21 20-22 23-24 23-27 25-26
exact bonds :
1-13 2-14 8-9 9-10 10-11 16-17 22-23
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 24-25 24-32 25-35 26-27 26-28 27-31 28-29 29-30 30-31 32-33 33-34 34-35
isolated ring systems :
containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 19:CLASS
20:CLASS 21:CLASS
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L22 STRUCTURE UPLOADED

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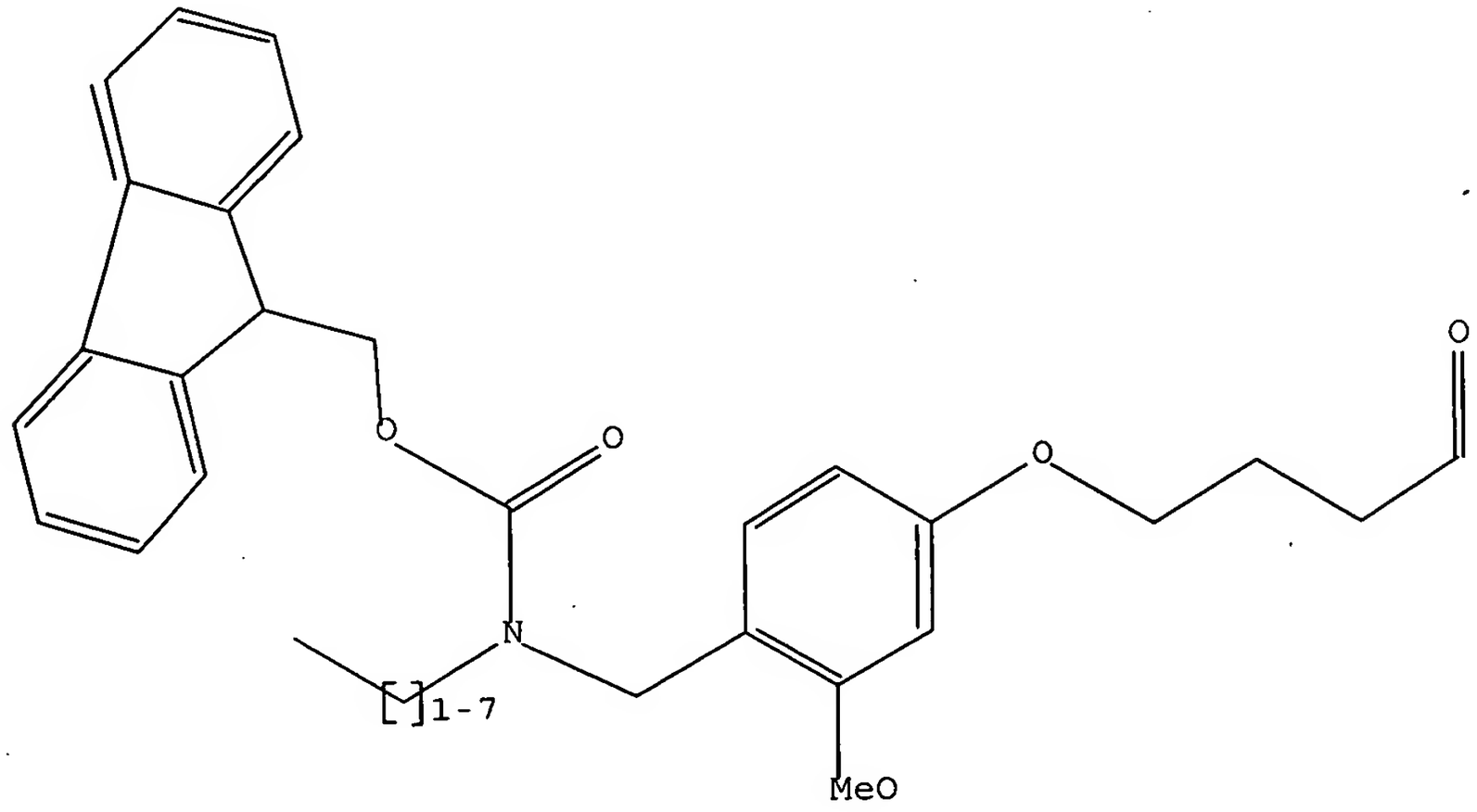

Structure attributes must be viewed using STN Express query preparation.

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L24 5 L23

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L24 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:2014 CAPLUS Full-text
DOCUMENT NUMBER: 142:94138
TITLE: Method and building blocks for preparing C-terminally labeled peptides
INVENTOR(S): White, Peter David; Beythien, Jorg Karl Wilheim
PATENT ASSIGNEE(S): UK
SOURCE: U.S. Pat. Appl. Publ., 21 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

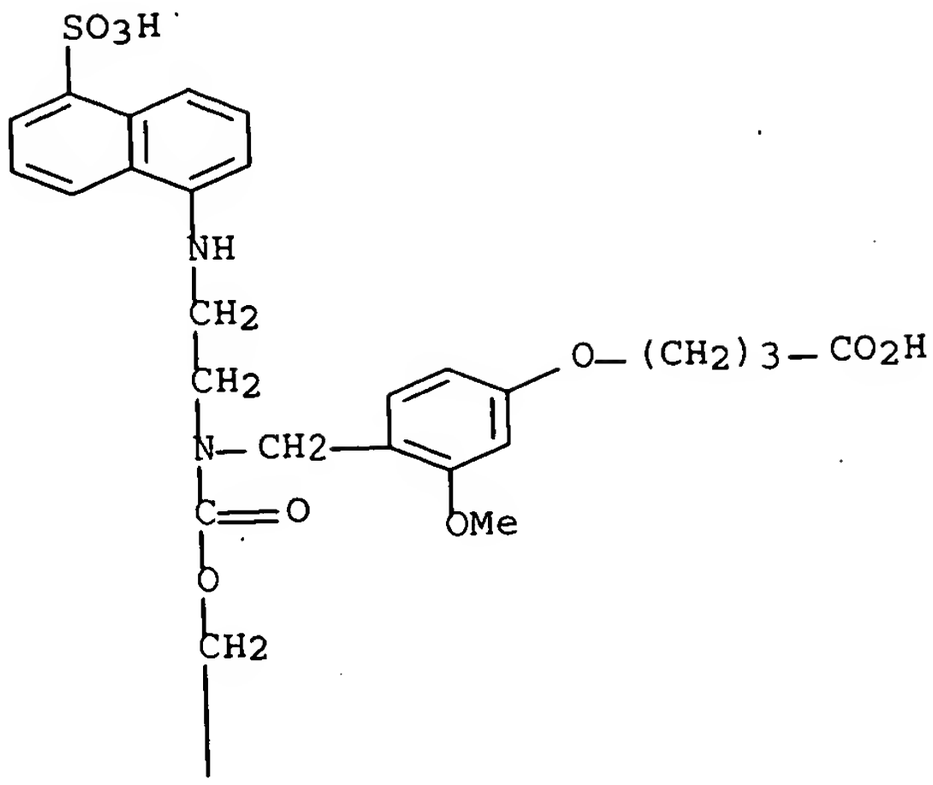
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004265949	A1	20041230	US 2003-607175	20030626
PRIORITY APPLN. INFO.:			US 2003-607175	20030626

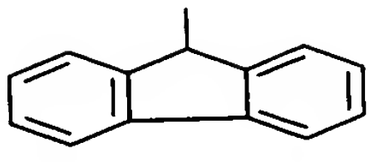
OTHER SOURCE(S): MARPAT 142:94138

AB The invention relates to a solid-phase method for preparing C-terminally labeled peptides and building blocks to be used in this synthesis. The building blocks have formula A-N(Lm-B)Kn-C, where A is a functionality for the attachment to a solid support or a functionality already comprising a solid support, B is a functionality for the attachment of one or more amino acids or peptides or a functionality already comprising one or more amino acids or peptides, C is a functionality for the attachment of one or more labels or a functionality already comprising one or more labels, K, L are independently (un)substituted alkyl chains with at least two C-atoms (one or more non-neighboring C-atoms may be substituted by O, NH, alkyl- or arylimino, S, CO, an ester or amide group and/or neighboring C-atoms may be connected via a double or triple bond), and m, n are 0 or 1 with m + n ≥ 1. Thus, N-biotinyl-N'-Fmoc-ethylenediamine-MPB-AM-resin [MPB = [4-(3-carboxypropoxy)-2-methoxyphenyl]methyl; Fmoc = fluorenylmethoxycarbonyl] was prepared and applied to the synthesis of H-Asp-Glu-Val-Asp-Ala-Arg-NHCH2CH2NH-biotinyl.

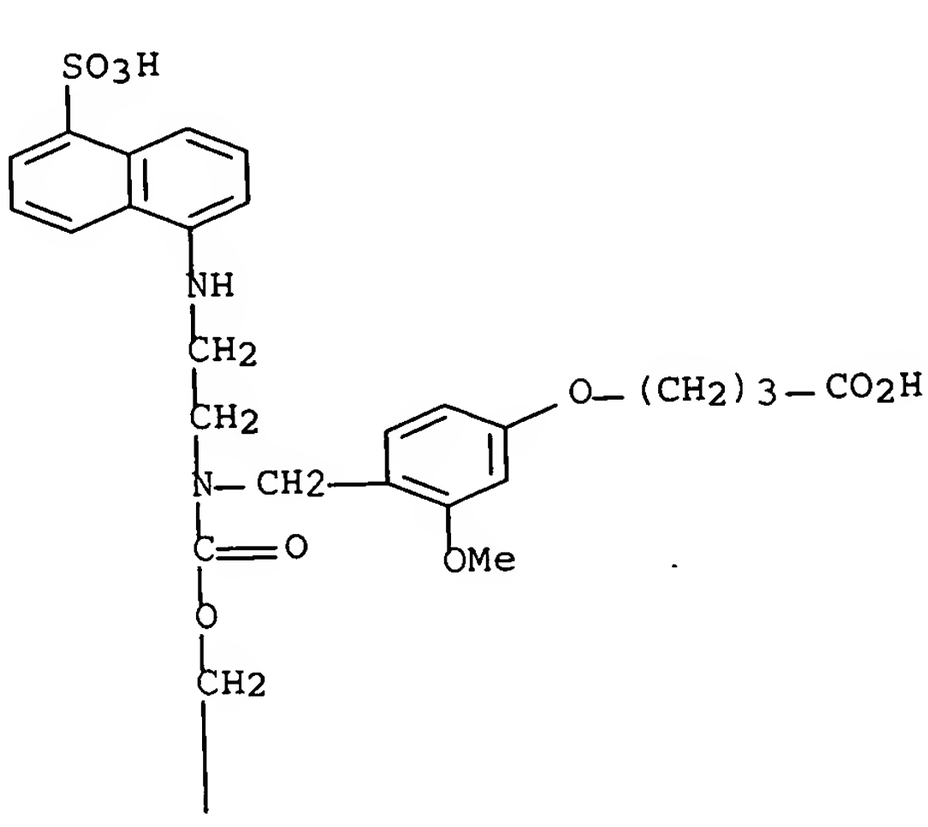
IT 816430-12-3DP, resin-bound 816430-12-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(solid-phase synthesis of C-terminally labeled peptides)

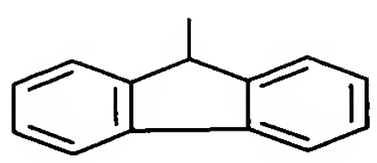
RN 816430-12-3 CAPLUS
CN Butanoic acid, 4-[4-[[[(9H-fluoren-9-ylmethoxy)carbonyl][2-[(5-sulfo-1-naphthalenyl)amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)





RN 816430-12-3 CAPLUS
CN Butanoic acid, 4-[4-[[[(9H-fluoren-9-ylmethoxy)carbonyl][2-[(5-sulfo-1-naphthalenyl)amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)





L24 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:688514 CAPLUS Full-text
DOCUMENT NUMBER: 137:201610
TITLE: Methods for solid phase synthesis of mercapto compounds and derivatives and combinatorial libraries
INVENTOR(S): Patel, Dinesh V.; Ngu, Khehyong; Zhou, Jianping
PATENT ASSIGNEE(S): Versicor, Inc., USA
SOURCE: U.S., 33 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

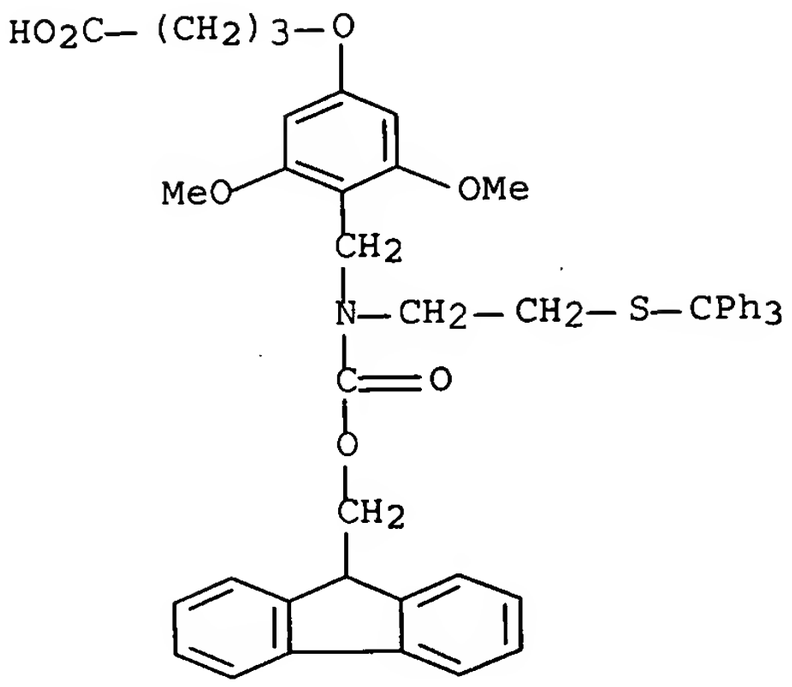
PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 6448058	B1	20020910	US 1998-151608		19980911
			US 1997-58744P	P	19970912

PRIORITY APPLN. INFO.:
OTHER SOURCE(S): MARPAT 137:201610

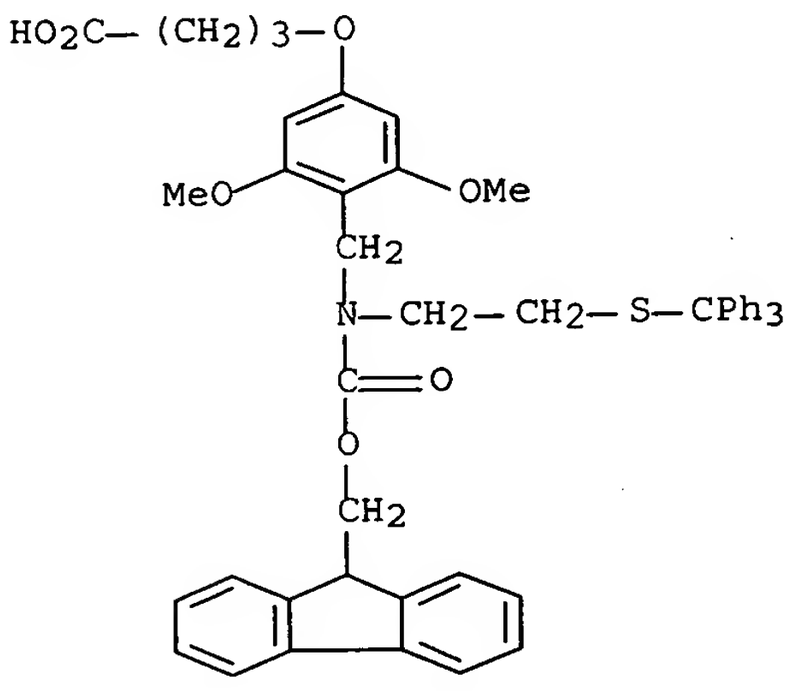
AB Methods of preparing combinatorial libraries of mercapto (thiol) compds. HSCH2CHR3CO(NR4CHR5CO)mNR6R7 [R3-R7 = H, (hetero)alkyl, (hetero)aryl, or heterocyclyl] are disclosed. The invention also provides for screening the mercapto compds. for bioactive compds., in particular, for inhibitors of matrix metalloproteinases. Thus, HSCH2CHBuCO-Leu-NHC6H4NO2-p and HSCH2CHBuCO-Val-prolinol were prepared by the solid-phase method and showed IC50 values < 10 μM against peptide deformylase.

IT 454466-68-3DP, resin-bound 454466-68-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(solid phase synthesis of mercapto compds. and derivs. and combinatorial libraries)

RN 454466-68-3 CAPLUS
CN Butanoic acid, 4-[4-[[[(9H-fluoren-9-ylmethoxy)carbonyl][2-[(triphenylmethyl)thio]ethyl]amino]methyl]-3,5-dimethoxyphenoxy]- (9CI) (CA INDEX NAME)



RN 454466-68-3 CAPLUS
CN Butanoic acid, 4-[4-[[[(9H-fluoren-9-ylmethoxy)carbonyl][2-[(triphenylmethyl)thio]ethyl]amino]methyl]-3,5-dimethoxyphenoxy]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

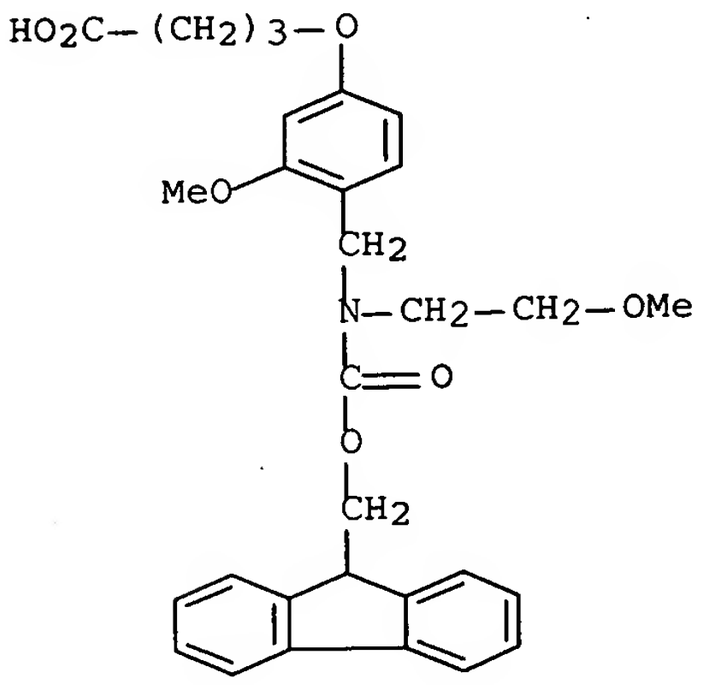
L24 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:303954 CAPLUS Full-text
DOCUMENT NUMBER: 137:278931
TITLE: An alternative method for the preparation of resin-bound secondary amines
AUTHOR(S): Austin, Richard E.; Waldraff, Christian A.; Al-Obeidi, Fahad
CORPORATE SOURCE: Selectide, A Subsidiary of Aventis Pharmaceuticals Inc., Tucson, AZ, 85737, USA
SOURCE: Tetrahedron Letters (2002), 43(19), 3555-3556
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal

LANGUAGE: English
OTHER SOURCE(S): CASREACT 137:278931

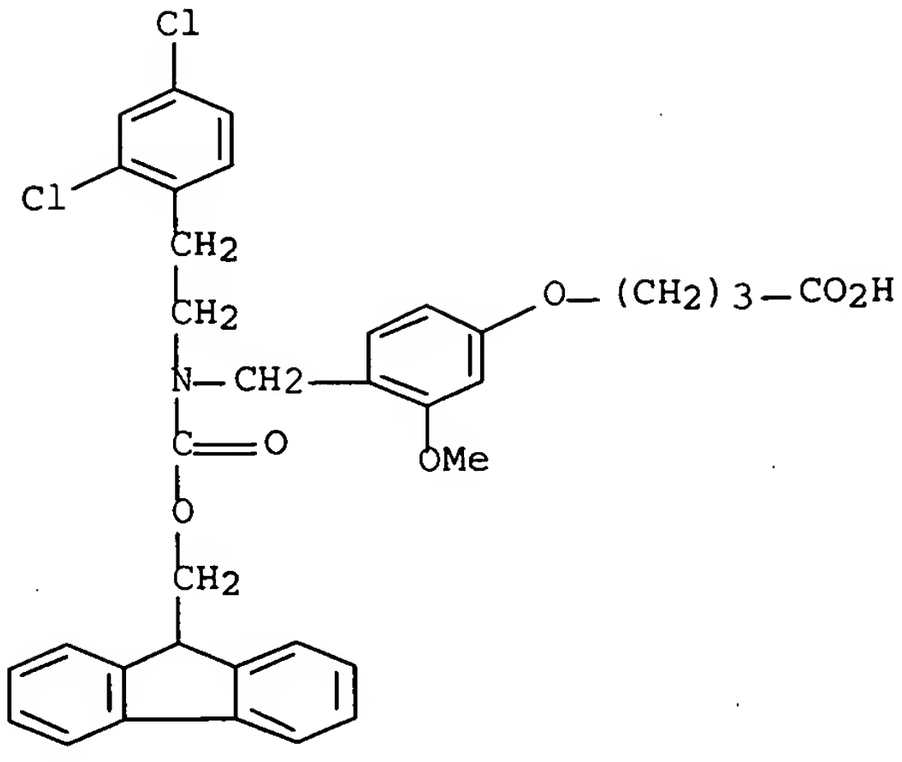
AB Difficulties encountered in the synthesis of resin-bound secondary amines attached via an acid-labile linker encouraged us to employ an alternative approach. A one-pot, scalable procedure for the synthesis of Fmoc-protected, amine/linker constructs is reported. These compds. can be efficiently coupled to a solid support and be used in the synthesis of carboxamides and sulfonamides. The advantages of the method are the elimination of problems associated with variability of alkoxybenzaldehyde resins, minimization of difficulties encountered in solid-phase reductive aminations, and a means for quantifying the resin loading of the secondary amine.

IT 467215-57-2P 467215-58-3P 467215-59-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(alternative method for the preparation of resin-bound secondary amines)

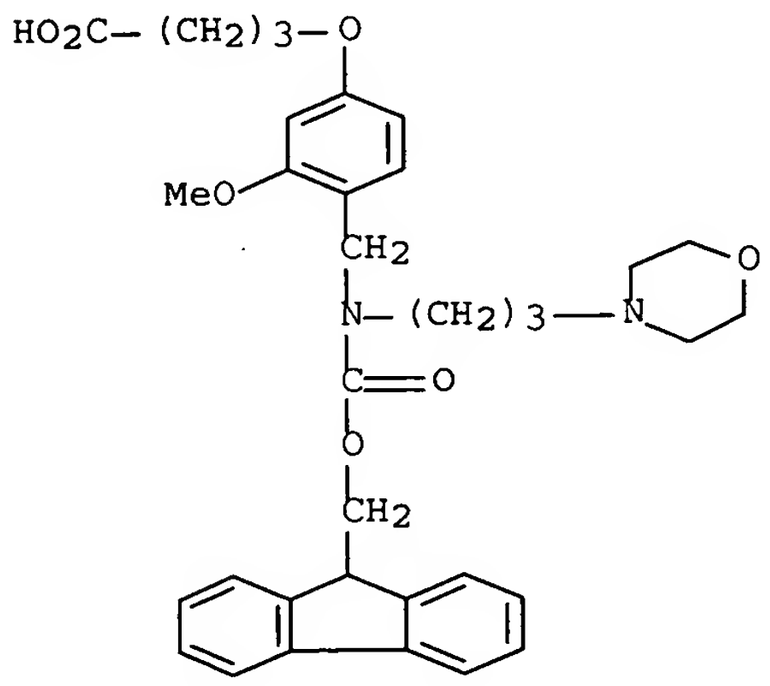
RN 467215-57-2 CAPLUS
CN Butanoic acid, 4-[4-[[[(9H-fluoren-9-ylmethoxy)carbonyl](2-methoxyethyl)amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)



RN 467215-58-3 CAPLUS
CN Butanoic acid, 4-[4-[[[2-(2,4-dichlorophenyl)ethyl][(9H-fluoren-9-ylmethoxy)carbonyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)



RN 467215-59-4 CAPLUS
CN Butanoic acid, 4-[4-[[[(9H-fluoren-9-ylmethoxy)carbonyl][3-(4-morpholinyl)propyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 4 OF 5 USPATFULL on STN
ACCESSION NUMBER: 2004:334867 USPATFULL Full-text
TITLE: Method and building blocks for preparing C-terminally labelled peptides
INVENTOR(S): White, Peter David, Southwell, UNITED KINGDOM
Beythien, Jorg Karl Wilheim, Budendorf, SWITZERLAND

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004265949	A1	20041230	
APPLICATION INFO.:	US 2003-607175	A1	20030626	(10)
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	APPLICATION			

LEGAL REPRESENTATIVE: FRELING E. BAKER, BROWN MARTIN HALLER & MCCLAIM, 1660 UNION STREET, SAN DIEGO, CA, 92101

NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Page(s)
LINE COUNT: 1028
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for preparing C-terminally labelled peptides and building blocks to be used in this synthesis includes a trivalent nitrogen atom having at least one device for attachment to a solid support, one device for the attachment of amino acids and one device for attachment of a label, whereby the device for the attachment of amino acids and/or the device for the attachment of a label is a linker, e.g. an alkyl- or polyethyleneglycol- linker.

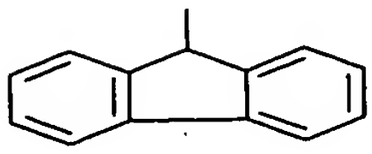
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 816430-12-3DP, resin-bound 816430-12-3P
(solid-phase synthesis of C-terminally labeled peptides)

RN 816430-12-3 USPATFULL
CN Butanoic acid, 4-[4-[[[(9H-fluoren-9-ylmethoxy)carbonyl][2-[(5-sulfo-1-naphthalenyl)amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A

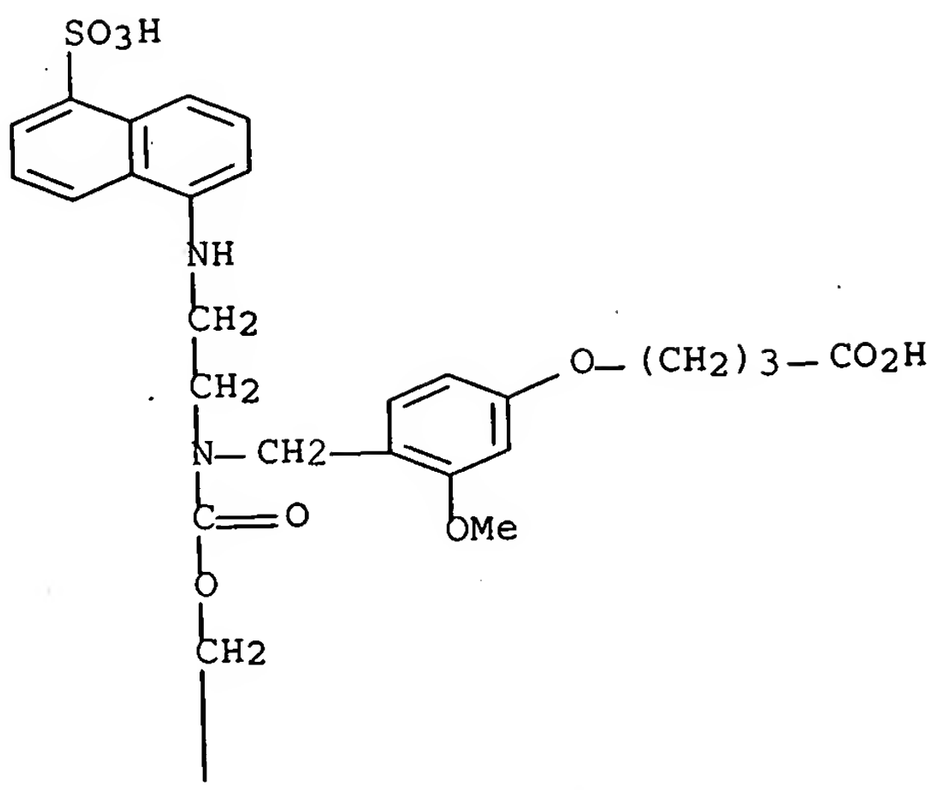
PAGE 2-A



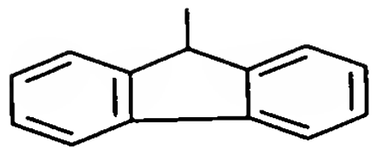
RN 816430-12-3 USPATFULL
CN Butanoic acid, 4-[4-[[[(9H-fluoren-9-ylmethoxy)carbonyl][2-[(5-sulfo-1-naphthalenyl)amino]ethyl]amino]methyl]-3-methoxyphenoxy]- (9CI) (CA

INDEX NAME)

PAGE 1-A



PAGE 2-A



L24 ANSWER 5 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2002:230828 USPATFULL Full-text

TITLE: Methods for solid phase synthesis of mercapto compounds and derivatives, combinatorial libraries thereof and compositions obtained thereby

INVENTOR(S): Patel, Dinesh V., Fremont, CA, United States
Ngu, Khehyong, Lawrenceville, NJ, United States
Zhou, Jianping, Mountain View, CA, United States

PATENT ASSIGNEE(S): Versicor, Inc., Fremont, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6448058	B1	20020910	
APPLICATION INFO.:	US 1998-151608		19980911	(9)

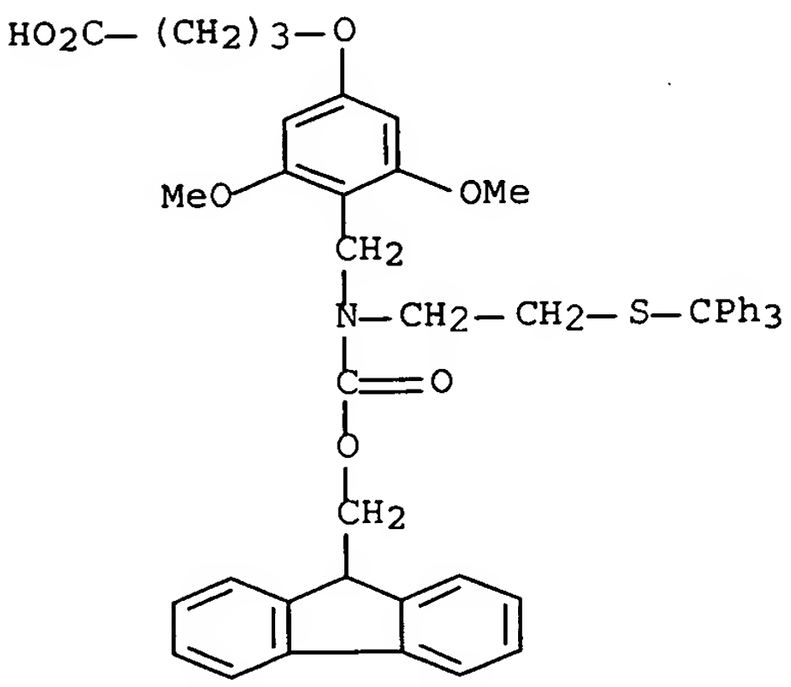
	NUMBER	DATE	
PRIORITY INFORMATION:	US 1997-58744P	19970912	(60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Weber, Jon P.
LEGAL REPRESENTATIVE: Morrison & Foerster LLP

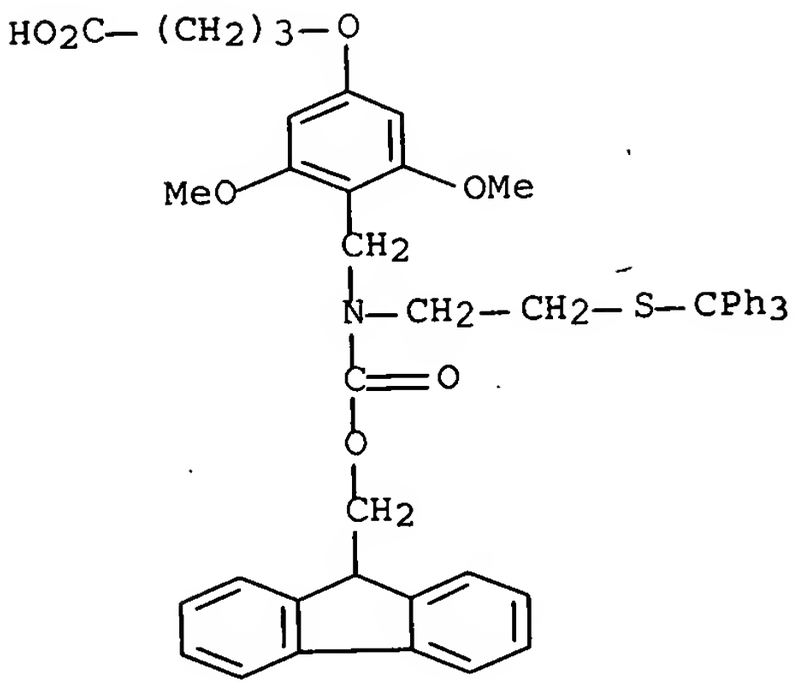
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1726
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods of preparing combinatorial libraries of mercapto (thiol) compounds them and compositions obtained therefrom are disclosed. The compounds are synthesized on a solid support. Following synthesis, the compounds are optionally cleaved from the support. One such method of synthesis involves attack of an S-protected nucleophile on a resin functionalized with a leaving group. The invention also provides for screening the mercapto compounds for bioactive compounds; in particular, for inhibitors of MMPs.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT 454466-68-3DP, resin-bound 454466-68-3P
(solid phase synthesis of mercapto compds. and derivs. and combinatorial libraries)
RN 454466-68-3 USPATFULL
CN Butanoic acid, 4-[4-[[[(9H-fluoren-9-ylmethoxy)carbonyl][2-[(triphenylmethyl)thio]ethyl]amino]methyl]-3,5-dimethoxyphenoxy]- (9CI) (CA INDEX NAME)



RN 454466-68-3 USPATFULL
CN Butanoic acid, 4-[4-[[[(9H-fluoren-9-ylmethoxy)carbonyl][2-[(triphenylmethyl)thio]ethyl]amino]methyl]-3,5-dimethoxyphenoxy]- (9CI) (CA INDEX NAME)

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L3             1 S L1 FULL

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L4             2 S L3

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L13          116 S L12 FULL

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L15           10 S L14 AND PEPTIDE
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L23 5 S L22 FULL

FILE 'MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 13:33:30 ON 30 MAR 2007
L24 5 S L23

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Executing the logoff script...

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COST IN U.S. DOLLARS		
FULL ESTIMATED COST	34.66	1416.04
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.34	-14.04

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